

Week 4

Christie Clinic Run to Remember: Saturday 7:30 to 10-ish



Upcoming events

- Reflections/Projections September 26-30, Siebel Center
- Vet Med Open House, October 2, 10-4

Jacob Deters

Academic advisor, Computer Science



Seven Surefire Tips for being Successful in CS!

Reflection on your first 4 weeks of classes

Get out a piece of paper or new document to take some notes. Don't worry – you won't be sharing!

Adapted by: Jacob Deters
Original Author: Steve Herzog

Tip # 1: Go to Class!



- Class may be review initially, but then new, fast-paced, in-depth
- Part of grade can be based on participation, teamwork, projects
- Many of our instructors have interactive lecture sections
- Real learning is not just reading textbook and taking tests – requires active engagement
- If you skip class, you'll be hopelessly behind by the first midterm
- YOU NEED A SOLID FOUNDATION !!

Tip # 1: Go to Class!

- Check in!

- On a scale from 1-5, where would you rate yourself today?
- What's something you can do today to help yourself improve this score?



Tip # 2: Don't Procrastinate!

- Each credit hour = *at least* three hours of work
- Assignments often take longer than you think (bugs happen!)
- Learn to manage your time!
 - Poor time-management a top reason for academic probation
- For help: Counseling Center
(610 E. John St, Champaign – just West of Altgeld Hall)
<http://counselingcenter.illinois.edu/>

Tip # 2: Don't Procrastinate!

- Check in!
 - On a scale from 1-5, where would you rate yourself today?
 - What's something you can do today to help yourself improve this score?

Tip # 3: Get help!

- Working with a study group (when allowed) can save time and be critical in understanding
- A lousy grade, being put on Academic Probation and/or getting kicked out of the university is a LOT more embarrassing than asking for help
 - ... from people who are eager to give it
 - ... and are even paid to do so!



Tip # 3: Get help!

- Check in!

- On a scale from 1-5, where would you rate yourself today?
- What's something you can do today to help yourself improve this score?

Tip #4: Go at your own pace

- Start out conservative, find your own pace
- Balance your schedule – technical and general education/free electives
- Prerequisites are there for a reason (why we enforce them now)
- Step back if you have trouble (we'll make sure)
- Faster doesn't necessarily mean better; it's not a race!
- College is an investment, an experience.



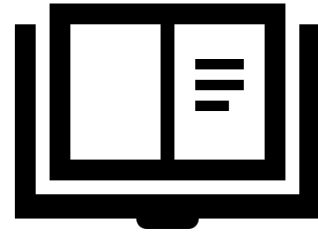
Tip #4: Go at your own pace

- Check in!

- On a scale from 1-5, where would you rate yourself today?
- What's something you can do today to help yourself improve this score?

Tip #5: Observe academic integrity

- You will get caught...
- ...And you'll probably flunk the class
- ...Or even get kicked out of the university
- Now that's a short cut!



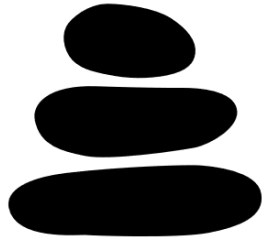
Tip #5: Observe academic integrity

- Check in!

- On a scale from 1-5, where would you rate yourself today?
- What's something you can do today to help yourself improve this score?

Tip # 6: Live a balanced life

- You should get involved, but...
- The key is BALANCE
- Start slow – add as you are able



Tip # 6: Live a balanced life

- Check in!

- On a scale from 1-5, where would you rate yourself today?
- What's something you can do today to help yourself improve this score?

Tip # 7: Take care of yourself

- You must pay attention to your health
- Getting exhausted weakens your immune system
- And getting sick can ruin a whole semester
- Getting sleep, eating well, showering, and exercising improves performance in the classroom
- Lots of campus resources for wellness – not just for when you get sick:

<http://www.campusrec.illinois.edu/wellnesscenter/about/>



Tip # 7: Take care of yourself

- Check in!

- On a scale from 1-5, where would you rate yourself today?
- What's something you can do today to help yourself improve this score?

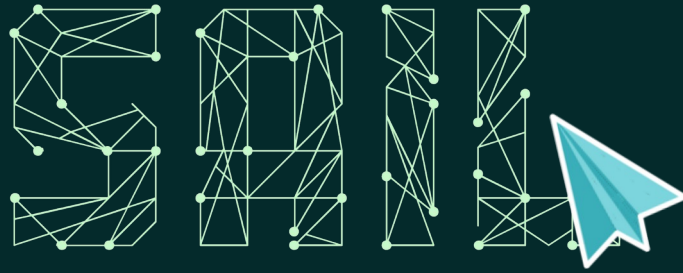
Summary

- Go to class
- Don't procrastinate
- Get help
- Go at your own pace through the program
- Observe Academic Integrity
- Live a *balanced* life
- Take care of yourself

Did you do
the moodle
attendance quiz?

SAIL

Devanshi Chakrabarti, dchak3
Sam Madhan, smadhan2



Join Sail 2023 Staff!

What is Sail?

- Annual, one-day event for high school students
- Held in person at UIUC
- Classes and workshops held by current UIUC students to show high schoolers what it's like to study computer science at the University
- Undergraduate student panel, speaker talks, tours, etc.

Help curate a memorable experience for these high schoolers by joining a committee on Sail Staff!

Committees

logistics

web

marketing

design

Apply now!!
(applications due September 16)



**Follow us on
Instagram to
stay updated!**

SOSP

CS100: Summer of Side Projects



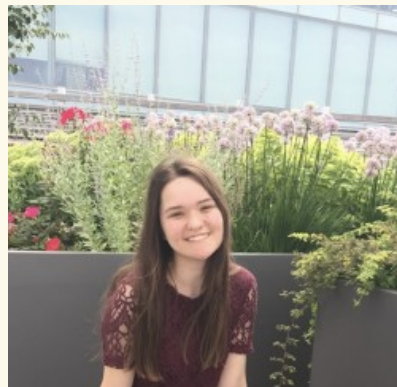
Who We Are



David An
Sophomore in Math



Saurav Chittal
Junior in Math



Monica Para
Senior in CS + ADV



Drshika Asher
Junior in CS

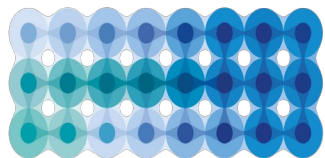
How did Summer of Side Projects begin?

All it took was the **CS125 forum**, a **dedicated course staff community**, and a drive to transform an **idea to reality**

About Summer of Side Projects

- **4 weeks, 4 projects (in Python)**
 - Chatbots
 - Flask APIs
 - Command Line Interface
 - PyGame
- **Personal and Professional Development**
 - How to Side Project
 - Personal Branding
 - Resume Reviews
 - How to Interview Prep
 - IMC Recruiting Event

Program Sponsors



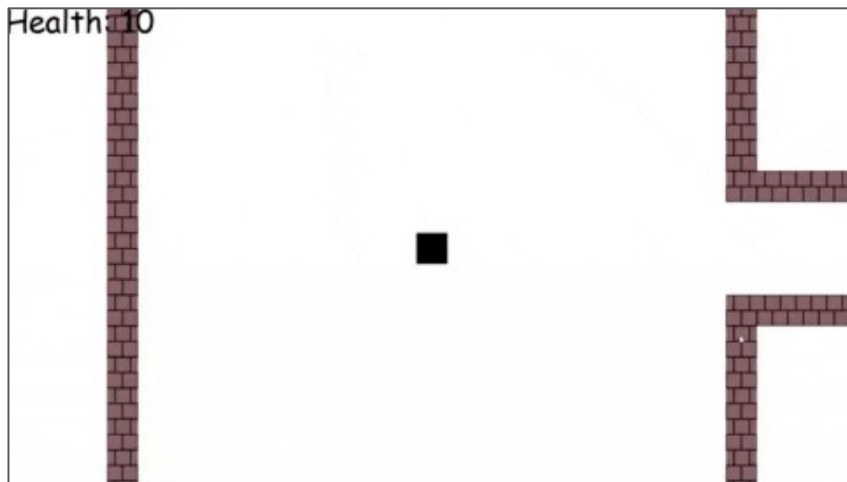
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Sample Projects Made By Students

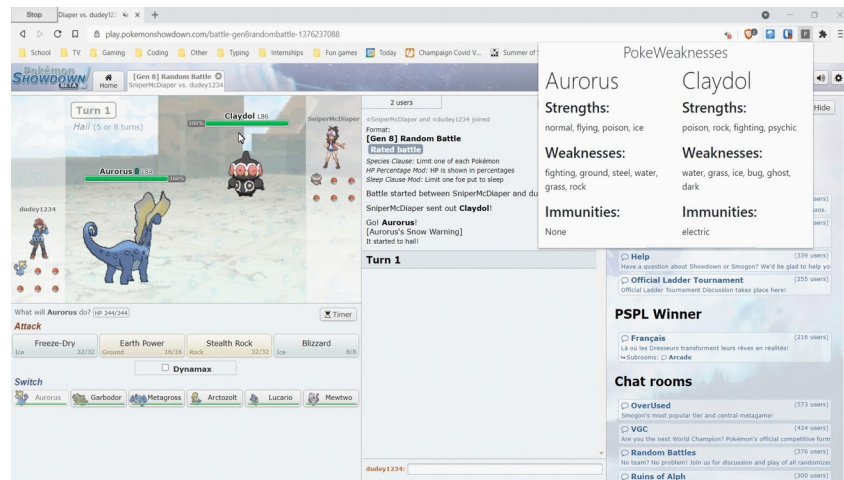
[PySlayer](#) - Khanh Nguyen

Dungeon Crawler with randomly generated rooms, enemies, projectiles and health.



[PokeWeakness](#) - Eugene Jang

Chrome Extension for Pokemon Showdown that shows the battle effective attack moves.



Personal and Professional Development

So, where do we begin?

- Internships are great ways to **get exposure into a field or company you are interested and helps with getting your foot into the corporate world** (think post-college)
- Biggest key you can do is to **focus on your personal and professional brand**
- **Aim for underclassmen opportunities**
- Ways to **build your portfolio**
 - Side Projects
 - Research
 - Hackathons

Some opportunities to check out!

Look into Frosh/Soph Specific Programs like internships, research, externships

- **UIUC PURE** Research
- **NCSA SPIN**
- **Anything @ Research Park**
- **Course Staff in CS classes**
- **RSOs**
- **Google**
 - STEP
 - Summer of Code
- **Meta** University
- **Microsoft**
 - Explore (SWE + PM)
 - New Technologist

Resume Advice

- Always **use black and white for your resume**. Blue is fine too. Any flashy color is a turn off - *Karen from HR will cringe*
- Make it on **Word Doc or LaTeX**
- **General Format to follow**
 - Header
 - Education
 - Experiences
 - Projects
 - Skills

Jake Ryan

123-456-7890 | jake@tsu.edu | [linkedin.com/in/jake](https://www.linkedin.com/in/jake) | github.com/jake

EDUCATION

Southwestern University <i>Bachelor of Arts in Computer Science, Minor in Business</i>	Georgetown, TX Aug. 2018 - May 2021
Blinn College <i>Associate's in Liberal Arts</i>	Bryan, TX Aug. 2014 - May 2018

EXPERIENCE

Undergraduate Research Assistant <i>Texas A&M University</i>	June 2020 - Present College Station, TX
<ul style="list-style-type: none">• Developed a REST API using FastAPI and PostgreSQL to store data from learning management systems• Developed a full-stack web application using Flask, React, PostgreSQL and Docker to analyze GitHub data• Explored ways to visualize GitHub collaboration in a classroom setting	
Information Technology Support Specialist <i>Southwestern University</i>	Sep. 2018 - Present Georgetown, TX
<ul style="list-style-type: none">• Communicate with managers to set up campus computers used on campus• Assess and troubleshoot computer problems brought by students, faculty and staff• Maintain upkeep of computers, classroom equipment, and 200 printers across campus	
Artificial Intelligence Research Assistant <i>Southwestern University</i>	May 2019 - July 2019 Georgetown, TX
<ul style="list-style-type: none">• Explored methods to generate video game dungeons based off of <i>The Legend of Zelda</i>• Developed a game in Java to test the generated dungeons• Contributed 50K+ lines of code to an established codebase via Git• Conducted a human subject study to determine which video game dungeon generation technique is enjoyable• Wrote an 8-page paper and gave multiple presentations on-campus• Presented virtually to the World Conference on Computational Intelligence	

PROJECTS

Gitlytics <i>Python, Flask, React, PostgreSQL, Docker</i>	June 2020 - Present
<ul style="list-style-type: none">• Developed a full-stack web application using with Flask serving a REST API with React as the frontend• Implemented GitHub OAuth to get data from user's repositories• Visualized GitHub data to show collaboration• Used Celery and Redis for asynchronous tasks	
Simple Paintball <i>Spigot API, Java, Maven, TravisCI, Git</i>	May 2018 - May 2020
<ul style="list-style-type: none">• Developed a Minecraft server plugin to entertain kids during free time for a previous job• Published plugin to websites gaining 2K+ downloads and an average 4.5/5-star review• Implemented continuous delivery using TravisCI to build the plugin upon new a release• Collaborated with Minecraft server administrators to suggest features and get feedback about the plugin	

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R
Frameworks: React, Node.js, Flask, JUnit, WordPress, Material-UI, FastAPI
Developer Tools: Git, Docker, TravisCI, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse
Libraries: pandas, NumPy, Matplotlib

Resume Advice

IMPORTANT NOTES:

- When you list relevant coursework, **DO NOT PUT IRRELEVANT COURSES**
 - Karen from HR **DOES NOT CARE** if you took *BBQ Science* if you're applying for *SWE Internship*
 - Karen from HR **DOES CARE** if you took *Data Structures* or *Systems Programming*
- Make sure everything is relevant and **QUANTIFY IMPACT and SPECIFY TOOLS where possible**
- **Use Word Doc or LaTeX (run thru ATS)**
- **Save file as “YourName LastName Resume”.pdf**



Resume Tracker

 Gallery +

Filter Sort  ...

New



- ▶ Brookdale Elderly Care Center, Latrobe, PA, Pianist, May 2017 - March 2020
- ▶ Sheetz Inc., Youngwood, PA, Store Associate, Feb. 2021 - Present
- ▶ Greater Latrobe Wildcat Store, Latrobe, PA, Manager, June 2019 - May 2021
- ▶ Illini EV Concept



Work Experience

- Deans List 1st semester
- Deans List 1st semester

- ▶ Fake News Detection with Long-Short Term Memory and Attention (2021)
- ▶ Defeating the Digital Divide (M3 Modeling Competition) (2021)
- ▶ CANbus translator Interface Arduino
- ▶ Keypr



Projects

- ▶ University of Illinois at Urbana Champaign 2021 - 2025, Mathematics
- Westmoreland County Community College 2017 - 2019, Computer Science A.A.S.
- Greater Latrobe Senior High School 2017 - 2021, High School Diploma



Education

 1

- ▶ Languages

EDUCATION

University of Illinois at Urbana-Champaign
B.S. Applied Mathematics

Expected Dec. 2023
GPA: 3.93/4.00

WORK EXPERIENCE

Ameren
Data Scientist

Champaign, IL
May 2022 - Present

- Instructed a team of 3 interns to conduct research into load monitoring and collect data with Python and SQL
- Created multiple SQL queries enabling efficient retrieval of over **200,000** customer records and user profiles
- Constructed various workshops to teach new Python skills such as scikit-learn and Tensorflow to other interns

How does our resume look like?

you + online

Linkedin Advice

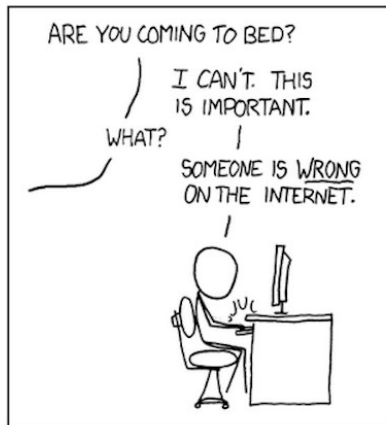
- Think of it as your **resume but on social media**
- **Include any activities, experiences, awards, projects, etc** on there that you feel are relevant that won't be able to fit into your resume
- ***Make custom linkedin url***
- What you *should* really focus on putting out there
 - The Headline
 - Experience
 - Education
 - **Only put UIUC, not your HS**
 - Projects or anything that speaks best to you (research, article you wrote, etc)



you + running

On empathy and being **yourself**

- You are your **own** advocate
 - Basically, you are your own billboard and advertising
- Empathy is an underrated tool
- Succeeding in any environment: **Humble. Hungry. and Smart**



The momentum of **running**

- College is a great place (we all know that)
- You get many opportunities thrown at you
 - Take any opportunity and **run** with it
- The grand path of life and the games you play
- The momentum of flywheels



Thank You!

Join us from 5-6 PM
@Legends Bar & Grill

ACM Happy Hour



David An
dzan2@illinois.edu



Monica Para
mpara3@illinois.edu

Connect with us!!