Cracking the Code





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





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

- UIUC PURE Research
- NCSA SPIN
- Anything @ Research Park
- Course Staff in CS classes
- RSOs
- Conferences/Conventions
 - MLH
 - o GHC
 - ThinkChicago Lollapalooza

- Google
 - STEP
 - Summer of Code
- Meta University
- Microsoft
 - Explore (SWE + PM)
 - New Technologist
- Synchrony BLP
- Externships

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 \circ
 - **Education**
 - **Experiences**
 - **Projects** 0
 - Skills





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

Undergraduate Research Assistant

Texas A&M University

June 2020 - Present College Station, TX

- · 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 Southwestern University

Sep. 2018 - Present Georgetown, TX

- · 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 Southwestern University

May 2019 - July 2019 Georgetown, TX

· Explored methods to generate video game dungeons based off of The Legend of Zelda

- · 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 | Python, Flask, React, PostgreSQL, Docker

June 2020 - Present

- · 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 | Spigot API, Java, Maven, TravisCI, Git

May 2018 - May 2020

- · 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







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



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)



Custom Linkedin URLs





Edit your custom URL

Personalize the URL for your profile.

www.linkedin.com/in/davidzan



See prior custom URLs that might be linked to you ✓

Assigned URL cannot be changed.

www.linkedin.com/in/david-an-477178106



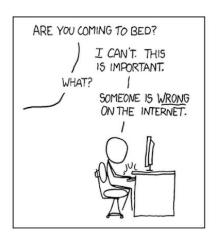


you + running





- 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





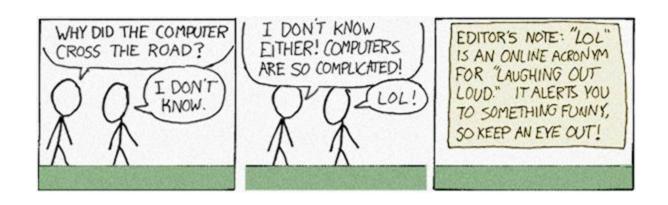


- How do you make yourself stand out from the crowd
 - Keep memorable conversations and follow up effectively
 - Great way to brush up on your elevator pitch
 - Try to scope out companies before hand and target those, use other ones you aren't interested in as practice
 - How can you stand out from everyone else applying and talking to





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



Links:

RP Guide: https://bit.ly/rp-guide22

Links to Campus Resources: https://bit.ly/uiuc-links



Thank You!





David An davidan.dev

Connect with me!!