Zoe Van Der Vlugt

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EDUCATION

Southwestern University   Georgetown, TX
Bachelor's of Science in Computer Science   Aug 2022 - May 2025
Relevant Coursework: Computer Organization, Theory of Computation, Algorithms,   **Ruter & Ruter-Herman Brown Scholar**
Discrete Mathematics, Linear Algebra, Artificial Intelligence, Computer Systems,   **Dean's List**
Programming Languages, Software Engineering   **GPA: 3.75**
Languages: Python, Java, C++, Common LISP (Proficient); Javascript, Prolog, R, Assembly (Intermediate)
Front End / Back End: HTML/CSS, Vue, MySQL, SQL, LangChain
Tools: GitHub, VS Code, Cloudflare Workers AI, Slack, Google Colab

PROJECTS

Automated Inventory Projection in a Small-Scale Vineyard   Georgetown, TX
Software Engineering Capstone   January 2025 - Present
● Used HTML/CSS/Vue to design a user interface addressing client's expectations.
● In collaboration with the team, designed a MySQL database to store relevant information and interact with the application's frontend.
● Gained familiarity with Excel, Power Query, and Power Automate through creating a data integration approach for the application.

AI Resume Builder (Hackathon for Cloudflare)   Austin, TX
Toolhouse + Cloudflare AI Hackathon   November 2024
● Utilized Cloudflare Workers AI and Python to build a server-less application that tailors resumes based on queries to an LLM.

Data Processing Automation for Pharmacy Refusals Dataset   Princeton, NJ
Datathon4Justice with QSIDE Institute   October 2024
● Navigated an ambiguous prompt through Google Colab and Slack virtual communication in a subteam of 5 within a team of 25.
● Implemented a LangChain-based system to interact with an LLM to classify pharmacy refusal cases based on a predefined prompt.

LEADERSHIP & INVOLVEMENT

SOAR Summit Professional Development Conference Participant & Mentor   Georgetown, TX
College and Career Center, Southwestern University   January 2024 - January 2025
● Encouraged development of a cohort of 6 members by leading activities around self-reflection.
● Supported cohort members by providing a platform on GroupMe, imessage, and email to foster conversations.
● Led an exercise in goal-setting for the 40+ attendees by presenting an allegory to if-then statements and examples.

Finance Operations Vice President   Georgetown, TX
Alpha Xi Delta Fraternity   September 2023 - January 2025
● Managed a $20,000/semester budget and billing for 48 members.
● Communicated weekly with the chapter executive board, and routinely with chapter and national advisors about financial goals.
● Developed payment plans for 10 active members, and 8 alumni to promote financial literacy across the chapter.

Calculus 2 Teaching Assistant   Georgetown, TX
Math & Computer Science Department, Southwestern University   January 2024 - May 2024
● Conducted biweekly office hours for 30+ students to answer questions and provide homework assistance.
● Researched and organized review sheets for weekly sessions to supplement students' coursework.
● Proctored student reassessments to ensure honesty and learning.