

Zoe Van Der Vlugt

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EDUCATION

Southwestern University

Bachelor's of Science in Computer Science

Relevant Coursework: Computer Organization, Theory of Computation, Algorithms, Discrete Mathematics, Linear Algebra, Artificial Intelligence, Computer Systems, Programming Languages, Software Engineering

Georgetown, TX

Aug 2022 - May 2025

Ruter & Ruter-Herman Brown Scholar

Dean's List

GPA: 3.75

SKILLS

Languages: Python, Java, C++, C, Common Lisp (Proficient); JavaScript, Prolog, R, x86 Assembly (Intermediate)

Front End / Back End: HTML/CSS, Vue, SQL/MySQL, LangChain

Tools: Linux, Git/GitHub, VS Code, Cloudflare Workers AI, Django, Excel

PROJECTS

Automated Inventory Projection in a Small-Scale Vineyard

Software Engineering Capstone

Georgetown, TX

January 2025 - Present

- Developed a MySQL database to centralize inventory tracking of wine by type, year, and blend, and implemented in Django.
- Optimized data integration in Excel, Power Query, and Power Automate saving 5 hours monthly for the vineyard staff.
- Designed a web app interface in HTML/Vue.js integrated with the Django backend, ensuring reliable MySQL database interactions.

AI Resume Builder

Toolhouse + Cloudflare AI Hackathon

Austin, TX

November 2024

- Produced a serverless application through Cloudflare Workers AI and Python that tailors resumes based on queries to Llama 2.
- Implemented file handling with PyPDF2 in a document upload system, supporting PDF/TXT formats with error handling.

Data Processing Automation for Pharmacy Refusals Dataset

Datathon4Justice with QSIDE Institute

Princeton, NJ

October 2024

- Engineered a document classification pipeline that processes RTF files using LangChain and OpenAI's LLMs and a given prompt.
- Structured classification responses using Pydantic models, ensuring data integrity for Pandas DataFrames visualizations.

LEADERSHIP & INVOLVEMENT

[SOAR Summit Professional Development Conference](#) Participant & Mentor

College and Career Center, Southwestern University

Georgetown, TX

January 2024 - January 2025

- Mentored a cohort of 6 members, guiding leadership development through self-reflection activities.
- Coordinated communication of cohort members by providing a platform on GroupMe, iMessage, and email.
- Led an exercise in goal-setting for the 40+ attendees by presenting an allegory to if-then statements and examples.

Finance Operations Vice President

Alpha Xi Delta Fraternity

Georgetown, TX

September 2023 - January 2025

- Managed a \$20,000/semester budget and billing for 48 members.
- Collaborated weekly with the chapter executive board, and routinely with chapter and national advisors about financial goals.
- Established payment plans for 10 active members, and 8 alumni to promote financial literacy across the chapter.

Calculus 2 Teaching Assistant

Math & Computer Science Department, Southwestern University

Georgetown, TX

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.