

Henry Olig

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EDUCATION

University of Minnesota

Bachelor of Science in Computer Science

Minneapolis, MN

Sept. 2021 – May 2025

- Technical GPA: 3.7
- Dean's List
- Relevant Coursework: Machine Learning, Database Systems, Operating Systems, Project Development, Data Structures and Algorithms, Software Engineering, Machine Architecture, Computational Linear Algebra

EXPERIENCE

Site Reliability Engineering Intern

May 2024 - Aug. 2024

Visa

Denver, CO

- Developed an internal tool for managing Java KeyStore certificates and monitoring their expiration dates
- Built backend functionality using the Spring framework, including creating robust APIs and SQL queries
- Designed and implemented a user-friendly UI in React for efficient certificate management and filtering
- Collaborated with members of various teams to ensure seamless integration and deployment of the tool

Teacher's Assistant

Aug. 2023 - May 2024

University of Minnesota

Minneapolis, MN

- Served as Lead Teacher's Assistant for introductory programming course focused on Python
- Assisted in planning and delivering course content, ensuring clarity and comprehension
- Facilitated lab sessions and graded assignments, providing constructive feedback to students

Software Engineering Intern

May 2023 - Jan. 2024

Daikin Applied

Plymouth, MN

- Designed an Azure DevOps Pipeline to automatically test software updates upon pull request
- Configured multiple pipeline agents to perform specific jobs in tandem to improve efficiency
- Created scripts to automate uploading test results to web application
- Updated isolated web application to allow uploading and downloading of .zip packages containing test results
- Overhauled software to improve performance, and add necessary components for pipeline
- Added and updated documentation to pre-existing code to improve legibility and enforce code standardization

Technology Support Agent

Oct. 2022 - May 2023

University of Minnesota

Minneapolis, MN

- Provided hardware and software support to students and faculty
- Delivered exceptional service through timely response and effective communication with inexperienced consumers
- Troubleshoot computer issues via desktop remote access and discussions with end-users
- Created, managed, and updated tickets that track user problems to enable faster and more optimized technical support

PROJECTS

Jotter | *React, Git, Flask, PyTesseract, OpenAI, MongoDB Atlas, Auth0*

MadHacks Hackathon 2023

- Developed the authentication and database management for a full-stack web application
- Utilized Flask to implement back-end API calls to OpenAI, generating quiz questions and summaries of user-input .png and .pdf files
- Took leadership to create a road map and manage tasks to improve workflow efficiency
- Styled Jotter's front-end to create a clean feel and smooth user experience

TECHNICAL SKILLS

Languages: Java, Python, C, C++, C Sharp, JavaScript, TypeScript, HTML, CSS, x86 Assembly, OCaml, Racket, SQL

Frameworks: React, Node.js, Next.js, THREE.js, Django, JUnit, Flask, Spring

Developer Tools/Practices: Git, Azure DevOps, Continuous Integration/Continuous Deployment, WSL, Virtualization, Docker, Agile, Scrum, Unit Testing

Software: Excel, Blender, MongoDB, Pocketbase, Auth0, PostgreSQL, Unity, MSSQL, MySQL

Libraries: PyPlot, NumPy, Matplotlib, JavaFX, JavaDoc, PyTesseract, PyTorch

Hardware & Networking: Machine architecture, Network Protocols/Configuration, Software agents, SSH