Jace HALVORSON

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🔗 Portfolio | GitHub | LinkedIn

EDUCATION

UNIVERSITY OF MINNESOTA-TWIN CITIES | COLLEGE OF SCIENCE AND ENGINEERING   *2019-2022*

B.S. IN COMPUTER SCIENCE

- 3.86 GPA - Graduated with Honors.
- Computer Science - Specialized in computer systems, operating systems, and computer architecture.
- Accelerated learning track - Graduated at age 20 after completing half of degree in high school.

EXPERIENCE

FIRMWARE ENGINEERING INTERN - SEAGATE TECHNOLOGY   *May 2022 - Dec 2022*

- Developed, improved, and tested controller firmware for HDD products.
- Effectively utilized engineering strategies while addressing problems to improve adaptability and robustness of code.
- Frequent discussion with stakeholders to find the ideal implementation of systems.

SECURITY MONITOR - UNIVERSITY OF MINNESOTA   *Apr 2021 - May 2022*

- Kept constant, concise, and meticulous communication via logging and radio discussion.
- Continuous surveillance and campus building patrols to ensure security and safety for both students and faculty.
- Aided students with safe travel through UMN's 24/7 safe-walk program.

PROJECTS

- ***Stat Huddle*** - A comprehensive NFL statistics application that provides extensive access to historical data from 1938 to the present day. Built on the React framework, this app delivers a highly responsive and user-friendly browsing experience for both casual viewers and sports analysts. The data was acquired with a Rust-based web scraper, which extracted it from Pro Football Reference and securely stored it in an Amazon DynamoDB database in JSON format. Also offers a REST API which utilizes Lamdba and API Gateway.

- ***VirtuMart*** - State-of-the-art mock e-commerce website engineered with a focus on functionality and style, utilizing the latest web technologies and design principles to create an immersive, seamless, and user-friendly shopping environment. While VirtuMart doesn't process real transactions or ship products, it offers a stunning representation of a modern e-commerce platform.

- ***HTTP Server*** - Multithreaded C Program that uses Linux system calls to service incoming GET requests. The response from this server includes an HTTP header signaling error or success along with the requested resources.

- ***Minitar*** - File compression program based on the Linux *tar* (tape archive) command. Provides a subset of *tar* services, including creating/deleting archives and appending/extracting files to and from archives.

Learn more at **jacehalvorson.com**

SKILLS

SOFT SKILLS	Ambition to Learn | Communication | Collaboration | Logging/Documentation
PROGRAMMING LANGUAGES	***Experienced:*** C/C++ | Python
	Familiar: JavaScript & TypeScript | HTML & CSS | Rust | Java
SOFTWARE DEVELOPMENT	Debugging | Git | Linux (GCC, GDB, Emacs, Makefile) | Markdown | LaTeX
FRAMEWORKS & LIBRARIES	React.js | Amazon Web Services (IAM, S3, Lambda, API Gateway, DynamoDB)