

Benjamin Wild

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EDUCATION

University of Michigan

Ann Arbor, MI

Bachelor of Computer Science, Minor in Statistics | GPA: 3.577

Expected Graduation: 05/2025

- **Relevant Coursework:** Data Structures and Algorithms, Statistical Computing, Computer Organization, Web Systems, Operating Systems, Computer Networks (F24), Applied Parallel Programming with GPUs (F24)

SKILLS

Languages: C/C++, Python, Java, PostgreSQL, Javascript/Typescript, R, HTML/CSS

Frameworks/Libraries: React.js, Spring Boot, Boost, GTest, Hibernate ORM, Flask, Material-UI

Technologies: Git, VSCode, Visual Studio, IntelliJ, DBeaver, Postman, Docker

EXPERIENCE

Cargill

Minneapolis, MN

Software Engineer Intern

05/2024 - 08/2024

- Built a REST API endpoint using Hibernate ORM and PostgreSQL to perform CRUD operations with material and product data accessed from 400+ worldwide locations by 2500+ users.
- Designed and built a data grid for strategic analysis using Typescript, React.js, and Material-UI to handle 980,000+ database entries using pagination with options to filter, search, add, update, and delete entries.
- Optimized Black-Scholes calculations used to price options contracts achieving a 4x decrease in latency using C++ and verified by benchmarking using the GTest Library
- Decreased execution time of a concurrent queue used across the core trading engine library by implementing fine-grained locking using C++ to see 30% decrease in latency verified by benchmarking using the GTest library

Travel + Leisure Co.

Orlando, FL

IT Automation Intern

05/2023 - 08/2023

- Created an automated test data creation tool for stress testing by using API orchestration enabled by Postman reaching a 6x increase in efficiency from previous manual data creation.
- Worked closely in the CI/CD pipeline monitoring and creating test suites Java and the Selenium library achieving broader coverage over existing mobile and web applications
- Increased user experience on web applications by simplifying workflows and updating existing features to more modern UI interfaces using Javascript and React.js

PROJECTS

File System Clone | C++, Git, Boost

Ann Arbor, MI

Project

03/2024 - 04/2024

- Designed a file system collaboratively with functionality to read, write, create and delete files/directories using C++ and the Boost library for multithreading as well as reader and upgradable writer locks.
- Handled messages received from a client program through a raw socket connection in order to identify which operation to perform and sent a confrontation message with the status of the operation performed.

Full-Stack Instagram Clone | Python, Javascript, React.js, Flask, SQLite, Git

Ann Arbor, MI

Project

08/2023-10/2023

- Developed REST APIs using the Python Flask library that are able to keep active user sessions. Accurately processed data from a SQLite database before passing the JSON formatted data back to the front end processes.
- Developed front-end functionality using Javascript and React.js which included components such as infinite scroll, double click to like, live update, comment, and like functionality by leveraging asynchronous programming to handle user events as they occurred. Deployed to AWS EC2 instance after completion.

Activities

Michigan Hackers, Michigan Club Golf, Michigan Hockey League

Ann Arbor, MI