Lucas Harrison

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EDUCATION

University of Minnesota, Twin Cities   *Minneapolis, MN*
College of Science and Engineering   Expected May 2025
Bachelor of Science, Computer Science
Cumulative GPA: 3.9 - *Gold Scholar*

PROJECTS - https://americastopwebdev.github.io/Personal-Site/

Bamntrak App, *Independent*   2023

- Full-stack nutrition logging app targeting both web and mobile
- UI optimized for speed of data entry (main design motive)
- React native frontend with Express + Node.js backend (Vanilla JS with Netlify serverless functions for web)
- Backend containerized with Docker and hosted on AWS
- User authentication and data storage, dedicated database, CRUD operations, API calls, web-scraping with Puppeteer, optical character recognition with Tesseract

Delivery Simulation Extension, *CSCI 3081W Programming Design Principles*   2023

- As a team, extended an existing drone delivery simulation app. Written in C++ and Javascript
- Added two features: weather events and notification functionality, using the Singleton and Observer design patterns respectively. I handled all frontend development and helped with design and backend development.
- Practiced Agile principles with the SCRUM framework, working in weekly sprints
- Jira for project management, unit/integration testing with Google Test, Docker, UML design planning

"Mini-tar" Utility, *CSCI 4061 Intro to Operating Systems*   2023
- POSIX-compliant utility capable of creating, modifying, and extracting, .tar archives
- Written in C with systems programming principles
- Used git to manage collaboration with partner

SKILLS

Strengths

- React, React Native
- Unit & Integration testing, debugging on large codebases
- Team-based projects, AGILE workflows

Languages & Technologies

- Javascript, React, React Native, HTML/CSS, Node.js, Express, Mongoose
- C, C++, Python, Java, Ocaml
- Git, Github, Docker, UML, Jira

WORK EXPERIENCE

Grandma's Saloon and Grill   *Duluth, MN*
Server - Waited tables. Cooperated with other servers, developed customer service skills.   Summer 2023

Grandma's Saloon and Grill   *Duluth, MN*
Boxcar Crewmember - Staffed a concessions stand with 2-4 other employees.   Summers '19, 21, 22