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 - [Personal Website]

Bamntrak App, *Independent*   2023

- Full-stack nutrition logging app targeting both web and mobile (iOS and Android)
- UI optimized for speed of data entry. Built independently in line with a personal interest in fitness
- React native frontend with Express + Node.js backend, supplemented with Vanilla JS and Netlify serverless functions for web deployment. User data transferable cross-platform
- Backend containerized with Docker and deployed on AWS
- User authentication through gmail with automated email confirmation
- PostgreSQL database, CRUD operations, API calls, web-scraping, optical character recognition, barcode scanning and more

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

- Worked in a team to extend a drone delivery simulator. Utilized C++ and Javascript
- Practiced Agile principles with the SCRUM framework, working in weekly sprints
- Implemented weather events and notification functionality, using SOLID design principles
- I led frontend design, implementing Javascript code while ensuring compatibility with backend functionality
- Jira for project management, unit/integration testing with Google Test, Docker, UML for 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 based web applications & Full-stack experience
- Unit & Integration testing, debugging on large codebases
- Team-based projects and collaboration, AGILE workflows, Effective communication

Programming Languages & Technologies

- React, React Native, Node.js, HTML5/CSS, Javascript, Express, Python, Java, C++, C, Ocaml
- UML, Git/Github, Jira, Docker, Linux

WORK EXPERIENCE

Grandma's Saloon and Grill   *Duluth, MN*
Server - Interfaced with a diverse range of customers daily, improving communication skills   Summer 2023
and effectively managing high-pressure situations in a fast-paced environment.

Grandma's Saloon and Grill   *Duluth, MN*
Boxcar Crewmember - Worked with a team to efficiently provide concessions to customers,   Summers '19, 21, 22
showcasing adaptability and teamwork