

# Daniel Hawker

dhawk064@gmail.com ❖ (608) 852-2801 ❖ Minneapolis, MN ❖ LinkedIn: [linkedin.com/in/daniel-hawker](https://www.linkedin.com/in/daniel-hawker)

Portfolio: [hawkerd.github.io/profile](https://hawkerd.github.io/profile) ❖ GitHub: [github.com/hawkerd](https://github.com/hawkerd) ❖ DockerHub: [hub.docker.com/u/hawkerd](https://hub.docker.com/u/hawkerd)

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## EDUCATION

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### University of Minnesota

September 2022 – Present (Graduating May 2025)

B.S. Computer Science, Mathematics Minor, College of Sci./Eng.

3.941 GPA

- Relevant coursework: Artificial Intelligence, Machine Architecture, Operating Systems, Networking, Functional Programming, Discrete Mathematics, Linear Algebra, Algorithms & Data Structures

## EXPERIENCE

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### Graco

May 2024 - Present

Software Engineering Intern

Minneapolis, MN

- Led a cross-functional team across Minneapolis and Delhi, managing pull requests, conducting thorough code reviews, and driving decisions on the project roadmap and release cycle.
- Developed and optimized embedded Linux software for Graco's ProMix V, using **C** and Structured Text (CoDeSys), significantly enhancing machine control processes and user interface responsiveness.
- Added features to save customer time, reduce material costs, and minimize environmental impact, directly contributing to Graco's sustainability and cost-efficiency goals.
- Performed extensive regression testing, improving software reliability for important launches and field tests.
- Practiced Agile methodologies through daily standups and sprints, using tools like Jira, Git, and BitBucket.

## PROJECTS

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### Jira Clone

[github.com/hawkerd/jira-clone](https://github.com/hawkerd/jira-clone)

- Developed a full stack Jira clone using **Go** for the backend to support CRUD operations/ HTTP requests.
- Created the backend logic behind complex features like user authentication and permissions.
- Built the frontend with React, Next.js, and Tailwind CSS to replicate the Jira interface.
- Containerized both ends of the application with Docker for easy deployment.
- Integrated **Amazon AWS RDS** using **PostgreSQL** to leverage cloud computing for a database.

### Drone Simulation (University of Minnesota)

[hub.docker.com/repository/docker/hawkerd/drone\\_simulation\\_final](https://hub.docker.com/repository/docker/hawkerd/drone_simulation_final)

- Collaborated with a team of three UMN students to develop a **full-stack** interactive drone simulation.
- Developed the **backend** logic in **C++** and integrated it with a **frontend** UI built with **HTML/ CSS/ TS**.
- Utilized **Git**, Jira for agile project management, and **Docker** for containerization and deployment.
- Implemented advanced software design patterns to enhance system scalability and maintainability.

### STL Reimplementation

[github.com/hawkerd/stl](https://github.com/hawkerd/stl)

- Implemented core **C++** standard library **data structures and algorithms** from scratch, including vector, list, map, and set, mimicking the behavior and performance of their standard counterparts.
- Performed **unit testing** using the **Google Test** library to ensure functionality compared to the STL.
- Gained a deep understanding of commonly used data structures/ algorithms and their implementations.

## SKILLS

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- Languages: C, Go, Python, C++, Java, OCaml, x86 and MIPS Assembly, HTML, CSS, JavaScript
- Technologies: Next.js, React, PostgreSQL
- Practices: Agile, OOP, embedded development, software testing
- Tools: Git, Linux, Docker, GDB, Valgrind, UML, MatLab, R, CoDeSys(Structured Text), LaTeX
- Problem solving: Algorithms, Data Structures, Calculus, Linear Algebra, Statistics
- Soft skills: Project Management, Leadership, Collaboration, Professional Communication