

Amanda N. Robinson | amanda@danivan.com | +1 (408) 656-8263

Incoming Junior CS student at WPI | Passionate about Webdev, UX and creative tech solutions
Seeking internship in software engineering, product management, data analysis, or UX design.

EDUCATION:

WORCESTER POLYTECHNIC INSTITUTE

Worcester, MA

- B.S. Computer Science (Minor in Economics)
Expected Graduation: May 2028
- Relevant coursework: Software Engineering, Database Systems, Data Science, Algorithms, Operating Systems, Systems Programming, Machine Organization/Assembly Language, Cryptography
- Dean's List (Fall 2024, Fall 2025)
- Interim VP New Member Experience - Alpha Gamma Delta Sorority
 - Planned and executed bid day to welcome all our new members
- VP Props & Costumes - Masque Theater
 - Managed and maintained the props and costumes closet all 3 years
 - Created documentation for all positions in both departments
- PR Officer - Women's Club Rugby
 - Designed instagram posts to inspire prospective members to join the team

LEIGH HIGH SCHOOL

San Jose, CA

- National Merit Finalist
- Girls Who Code, Co-President

Aug 2020–June 2024

WORK EXPERIENCE:

SOUTH FLORIDA PROTON THERAPY INSTITUTE

Intern

May 2026–Aug 2026

- Created an application to automate the download of MRI and CT scans, which was used to test a program that would provide patients a safer treatment process
- Harnessed the Varian medical database to isolate relevant data while ensuring HIPAA-compliance
- Applied software engineering fundamentals to build a dynamic heatmap representation of data to identify areas for the company to prioritize outreach
- Technologies: SQL Server, SQL, DICOM, Java, Python, Typescript, React, Next.js, Leaflet, GeoJSON, Google Places API, Claude Code

THREEKIT

Intern

Jul 2022–Aug 2022

- Experimented with a path-tracing renderer for use in e-commerce product catalogs
- Internship under the mentorship of CTO Ben Houston
- Technologies: HTML, JavaScript, Three.js (ThreeKit proprietary library)

PROJECTS:

Yelp Business Search Application (WPI CS3431)

- Built a database-backed search application over the Yelp Open Dataset, supporting business discovery by state/city, category, and attribute, plus user-submitted ratings and tips
- Designed a normalized relational schema (ER diagram, SQL DDL) and deployed to PostgreSQL
- Implemented SQL queries, views, and triggers backing the major use cases and enforcing data integrity
- Built a Java + Python client that queries the database and presents results
- Technologies: PostgreSQL, SQL, Java, Python, PySide6, JSON

Shopping Comparison Service (WPI CS3733)

- Built a full-stack grocery comparison web app enabling users to upload/manage receipts, maintain shopping lists, and compute best-price options from historical purchase data using a MySQL relational schema.
- Designed and refactored database schema and developed complex queries
- Utilized TypeScript for business logic (AWS Lambda) and IaC
- Used Figma for UI design and collaboration
- Coordinated team execution
- Technologies: Next.js, React, TypeScript, AWS Amplify/Cognito, AWS CDK, MySQL

NextFlex FlexFactor Competition

Oct–Dec 2023

- Created MEMO, a wrist-worn device to help with time management
- Technologies: MicroPython on Raspberry Pi Pico with GPIO
- Won 3rd place in Santa Clara County

Intervle

Summer 2023

- Developed a responsive web game inspired by everybody's favorite word puzzle, Wordle, but with a lexicographic twist
- Technologies: HTML, CSS, JavaScript (Bootstrap)

SKILLS:

- **Languages:** Java, Python, TypeScript, HTML/CSS, SQL, C++, C, Racket
- **Frameworks/Libraries:** React, Bootstrap, Next.js, Node.js/Express, PySide6
- **Tools:** Git/GitHub, VS Code, Claude Code, Linux, Raspberry Pi
- **Databases:** MySQL, PostgreSQL, SQL Server Management Studio
- **Other:** AWS, Figma, MicroPython, UX principles

INTERESTS & HOBBIES:

- Digital photography, theater, logic puzzles, board games, baking, origami, rugby