

Charlotte Lutolf

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OBJECTIVE

Enthusiastic and adaptive Computer Science student seeking a software engineering or database management internship.

EDUCATION

Worcester Polytechnic Institute (WPI), Worcester, MA

BS in Computer Science, GPA 3.83

May 2028 Graduation

SKILLS

Languages & Frameworks: Java, JavaScript, Typescript, Python, C, C++, SQL, HTML5, CSS, TailwindCSS, React, Next.js, Prisma ORM, Visual Studio, IntelliJ, Git, Oracle SQL Developer, JDBC

General: Object Oriented Programming, Systems Programming, Algorithm Development, Database Management, Agile and Scrum Methodologies, Software Design Patterns, Collaboration, Creative Problem Solving, Communication, Organization, Time Management

PROJECTS

Software Engineering in collaboration with Hanover Insurance

March 2026 – May 2026

- Worked on a 10-person team to apply Agile development methodologies in the creation of a web application prototype running the cloud for Hanover Insurance.
- The final software application prototype included a content management system, user and role management system, login authentication, data analytics, and a customizable dashboard.
- The web application was developed using the PERN (PostgreSQL, Express, React, Node.js) stack with Typescript, Prisma ORM, and Shadcn. Deployment on the cloud was accomplished using Railway.
- As a full-stack software engineer, I gathered software requirements by creating user stories and use case diagrams.
- I was responsible for writing the user management, task, and workflow components of the application.
- Our team successfully delivered the requested application at the end of the eight-week term.

Hospital Database

August 2025 – October 2025

- Designed and modeled an entity-relationship diagram for a mock hospital database, mapping it to a relational schema with 13 relations in Oracle SQL.
- Partnered with another student to write and implement 20+ SQL queries, views, and triggers for the database.
- Constructed a Java application using JDBC to retrieve and display patient, doctor, and hospital admission data.

Fruit Picking Robot

August 2025 – October 2025

- Collaborated with a team of four to design and build a robot capable of semi-autonomously picking artificial fruits from PVC pipe “trees”.
- Developed and implemented a proportional control algorithm enabling the robot to detect, approach, and harvest fruit autonomously.

WORK EXPERIENCE

Merchandise Associate, HomeSense, Princeton, NJ

October 2023 – January 2025

- Delivered personalized customer assistance to enhance satisfaction and loyalty.
- Increased sales through proactive product promotion, furniture setup, and credit card enrollment.

ACTIVITIES & LEADERSHIP

Residential Program Assistant, WPI

July 2026 – August 2026

DEI Chair, Sigma Pi Gamma Iota, WPI

March 2026 – January 2027

Community Advisor, WPI

August 2025 – January 2026