Owen Jewell

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Education

Iowa State, College of Engineering | Ames, Iowa · *Expected Graduation 2026*

Bachelor of Science, Computer Engineering, *Cybersecurity Minor* · GPA: 3.8

Experience

Grounds Keeper - Rush Copley Medical Center | Aurora, Illinois · *June - August 2023 & 24*

- Safely operated tractors, trucks, generators, pressure washers, and other machinery
- Mulching, weeding, mowing, and various other tasks to ensure general campus appeal

Crew Trainer - McDonalds | Aurora, Illinois · *August 2020 - September 2021*

- Responsible for the orientation of crew members and providing customer satisfaction
- Multitasked: handled transactions, followed regulations, prepared orders, ensured cleanliness

Skills

Languages: Java, C, Javascript, HTML/CSS, Python

Frameworks: React.JS, Node.JS, Flutter

Tools: Git, Linux, MongoDB, MySQL, Android Studio, Postman

Projects

Pet Adoption App | Java, Spring Boot, GitLab · *January - May 2024*

- Followed the Scrum model, an Agile framework, to work as a team and develop the frontend and backend with code reviews, sprints, and git to manage the codebase
- Developed an app for pet agencies to post animals and for users to view these animals
- Utilized Java in Android Studio to develop a visually appealing and easy-to-use frontend and implemented backend SpringBoot functions while using Postman for frequent testing

IRobot Roomba | C, Python · *April - May 2024*

- Used a C program to blindly navigate a randomized course of obstacles and locate specific objects in the field before returning to the starting position
- Embedded C Programming used CCS IDE and utilized extensive datasheet info for IRobot
- Raw scan data sent with Putty to a Python GUI to visualize objects while navigating

Cookbook Web App | Javascript, React.js, Node.js, MongoDB · *April - May 2024*

- Developed a web application using Javascript for users to post and view their favorite recipes with React for the frontend and MongoDB for the backend
- Allowed users to view, post, and edit the ingredients, instructions, and pictures for recipes

Crash Notification Helmet | Dart, Flutter, C++ · *February - May 2023*

- Arduino Nano sensors programmed with C++ to send data to a Flutter App
- Dart program with a rudimentary crash detection algorithm to broadcast an emergency SMS text message to a list of emergency contacts using Twilio API
- Components soldered together and inserted into the padding of a motorcycle helmet

Extracurriculars

Iowa State Ultimate Frisbee · *August 2022 - Present*

- Vice President (Spring 2024), Strength and Conditioning Chair (Fall 2023)

Boy Scouts of America · *April 2022*

- Achieved Eagle Scout, held multiple leadership positions, and led a project for a non-profit