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## Skills

- Proficient in Java (Eclipse/Netbeans) and C/C++ (Visual Studio/Emacs)
- Experience with git, Spring Boot/Web/MVC, Scala, Python, SQL, JS, HTML, CSS, Bash, FORTH
- Develop on Windows and Debian Linux
- Agile and Waterfall development methodologies
- Web Service development, Robotic systems programming and development, Microcontroller programming, Socket programming, some Real-Time system development

## Employment History

### ***Unidesk Corporation – C++ Developer (Summer 2015)***

Worked with a team of engineers to successfully design and implement a framework to test proprietary offline Windows registry hive manipulation APIs. Wrote C++ framework to call Win32 APIs to provide setup and validation of registry hives manipulated by Unidesk's registry hive editor.

### ***Unidesk Corporation – Robotics Internship (Summer 2014)***

Worked with the CTO and CMO to successfully implement an articulated robot arm for a trade show to be manipulated by attendees through an iPad. Wrote Java backend to implement a JSON based web service to accept high-level user input, translating the commands into lower-level FORTH commands to choreograph robot movements while avoiding collisions.

## Education

### ***University of Massachusetts Amherst (2015 – 2019)***

BS in Computer Science, Expected Graduation: May 2019. GPA: 3.86

## Activities

### ***Co-Founder & Principal – Marvin Gardens (2015 – Present)***

- Developed *Nectr*, a meal filtering service designed around filtering meals by their ingredients and other properties. Developed an ingredient synonym engine to ensure meals with allergen synonyms are filtered appropriately. Sold non-exclusive license to UMass Dining.

### ***FIRST Robotics – FRC Team 467 (2012 – 2015)***

- *Lead Programmer (2013 - 2015)*: Led a team of several students to program a robot to meet each year's challenge within a six week development period. Coordinated architecture and design with the Electrical Team to wire the robot and define robot sensors.
- *Steering Committee Member (2014 - 2015)*: Worked with a team of five students to run twice-weekly meetings, oversee sub-team coordination, and manage build schedule.

## Awards

### ***Entrepreneurial Spirit Award from Grinspoon Entrepreneurship Initiative (2016)***

- Received award for demonstrable entrepreneurial spirit in the development of Marvin Gardens

### ***Course Citation for CompSci 187 Data Structures and Algorithms (2016)***

- Received course citation for outstanding performance and ranked in the top three students

### ***1st Place AWS, 1st Place Groupon, 2nd Place Overall at HackHolyoke Hackathon (2015)***

- Developed a working application in twenty-four hours that can provide UMass and Holyoke students personalized daily email digests of allergy-safe foods to eat at each campus dining hall. Implemented the RESTful API, Email Generation Logic, Database I/O, and Web Scrapers.

### ***Most Technically Challenging Project Award at Blueprint HackMIT Hackathon (2014)***

- Developed a working application in eight hours with a team of three other high school students that provides free internet access via SMS text messages. Implemented an HTTP service backend in Java.