Kyle C. Vedder

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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.