Kyle Hovey

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EDUCATION

Utah State University

Logan, UT

Computational Mathematics (BS); GPA: 3.88

Aug. 2015 - Dec 2018

Cuesta College

San Luis Obispo, CA

Three semesters to transfer; GPA: 3.95 Jan. 2014 - May. 2015

Experience

Atomic Jolt Logan, UT

Software Engineer

June 2018 - Present

- Learnosity Connector: Contributed to the Learnosity Connector project which enables teachers to author course content in Canvas via the popular Learnosity service.
- o Socialize: Developed new elements of Atomic Jolt's Socialize platform for polls and discussions between students.
- Atomic Insight: Led a project using Go and React that uses LTI advantage to deliver metrics into Canvas Courses.

USU Power Electronics Laboratory

Logan, UT

Software Engineer / Research Assistant

Jan 2016 - Jun 2018

- Square One Altium Library Management System: Created a system using Node+Express for mass-submitting tickets for new parts to be added to our in-house Altium Database and verified by librarians.
- CAN Data Graphing Utility: Created an HTML5 asynchronous web-app for generating and sharing graphs of terabytes of data accrued in the AMPED battery life extension project.
- o Graphic Design: Designed all the banners and window decals around our facilities in Logan, UT. Utilized a unified color palette for all the facets of our organization.

USU GASLab Logan, UT

Volunteer Software Engineer

Apr 2017 - Present

o Cubium Software Project: A volunteer of the Get-Away-Special small-satellite program at Utah State University. Develops open source subscription-based plug and play software for small satellite application as well as new hardware that will empower individuals to deploy experiments on a budget.

West Coast Astronomical Society

Santa Margarita, CA

Head of Mechatronics

Jun 2014 - Jan 2015

o Telescope Automation: Took charge of automating the hardware of a Meade 10" telescope to more accurately detect the positions of binary star systems.

Cuesta College

San Luis Obispo, CA

Tutor

Aug. 2014 - May. 2015

o Math / Physics Tutor: Tutored all levels of mathematics. Teachers frequently sent students to me so that I could explain new concepts to them.

ACHIEVEMENTS

- USU Magna Cum Laude: Graduated Magna Cum Laude in the Computational Mathematics program at USU
- USU Hackathon (2018): Took first place for the third time in a row at the Utah State University intercollegiate hackathon for a Neural Network that can read D'ni numbers.
- Cuesta College FBSA (2015): Awarded the Frank Brown Science Award for outstanding academic achievement.

Projects

- 8 Bit Spaghetti: Designed and built 8-bit processor using TTL. Helped many students around the world build versions of the design.
- Dream Cloak LED Display: Designed and built a 15x30 24-bit wearable RGB LED display and a web app to control it wirelessly, all in five days.
- Automata Research: Developed novel approach to classifying all Life-Like Cellular Automata by a similarity metric.
- Health Research: Designed and built personal health analysis applications (ECG/Apple Health) for insight and knowledge into their own health.

Programming Skills

- Languages: TypeScript, JS (es10), C, C++, CSS3 Python, Julia, Go, Swift, SQL, Haskell, LISP, Bash, LaTeX
- Technologies: React, GraphQL, Node.js, Express, Tensorflow, Numpy, Postgresql, WebSocket
- Operating Systems: MacOS, Arch, Ubuntu/Debian, CentOS, Windows