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.
  - **Socialize**: Developed new elements of Atomic Jolt's Socialize platform for polls and discussions between students.
  - **Waymaker**: Collaborated with Lumen Learning on the Waymaker project and developed educational workflow software
  - **Atomic Insight**: Led the Insight project to replace Canvas Analytics with a novel LTI stack written in Go+React to deliver customized 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 a application for generating and sharing graphs of terabytes of data accrued in the AMPED battery life extension project.
  - **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 - Dec 2018*
  - **Cubium Software Project**: A volunteer of the Get-Away-Special small-satellite program at Utah State University. Developed 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*
  - **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*
  - **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 (2016-2018)**: Took first place three years in a row at the Utah State University intercollegiate hackathon
- **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), CSS3, Python, C, C++, Ruby, Julia, Go, Swift, SQL, Haskell, LISP, Bash, LaTeX
- **Technologies**: React, GraphQL, Node.js, Rails, Express, Tensorflow, Numpy, Postgresql, WebSocket
- **Operating Systems**: MacOS, Arch, Ubuntu/Debian, CentOS, Windows