Kyle Hovey

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EDUCATION

Utah State University — Logan, UT
Computational Mathematics (BS); GPA: 3.88; Magna Cum Laude — *Aug 2015 – Dec 2018*

Cuesta College — San Luis Obispo, CA
Three semesters to transfer; GPA: 3.95 — *Jan 2014 – May 2015*

EXPERIENCE

Brilliant Worldwide — San Francisco, CA
Senior Software Engineer — *Oct 2021 – Present*
- **Web Platform and Infrastructure - Tech Lead**: Served as Tech Lead on an ambitious project to rewrite Brilliant's frontend codebase with React/GraphQL/NextJS.
- **Interactives Experience Pod**: Developed and planned interactive features to enrich learner experience, including gamification of learning with Leagues.
- **Authoring Team**: Collaborated on a versatile lesson editor that enables producers to create world-class interactive STEM lessons.

Atomic Jolt — Logan, UT
Software Engineer — *Jun 2018 – Oct 2021*
- **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 GAS Lab — 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.

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.

TECHNICAL SKILLS

- **Languages**: TS/JS, CSS/Sass, Python, C++, Swift, Kotlin, Ruby, Julia, Go, SQL, Elm, Haskell, LISP, Bash, LaTeX

- **Technologies**: React, NextJS, GraphQL, Svelte, Node.js, Rails, Django, Numpy, Postgres, WebSocket

- **Operating Systems**: MacOS, Arch, Ubuntu/Debian, CentOS, Windows