

Sean Selvig

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Education

- Graduated June 2019 **University of California, San Diego**, *B.S. Computer Science*, San Diego, CA.
2014-2016 **Berkeley City College**, *GE*, Berkeley, CA.

Technical Skills

- Comfortable Python, JS, HTML, CSS
Familiar Haskell, Lua, C, C++, Java
Misc. Git, Linux, Node, Scikit-Learn/NumPy

Projects and Experience

- Sept. 2015 - **CIS 61**, *Berkeley City College*.
Dec. 2015 Developed a Reddit bot in Python that moderators used to update tournament scores in the sidebar. Used PRAW to access Reddit's API and BeautifulSoup for score scraping.
- April 2017 - **CSE 110**, *UCSD*.
June 2017 Developed a dynamic wallpaper changing Android app with six students using a scrum framework. Gained experience with the Android SDK, mock client interaction, and issue tracking via Jira.
- June 2017 - **Tech Support**, *Commonwealth Financial Network*.
Aug. 2017 Assisted a financial advisor with data entry tasks, client information backup and organization, tech support questions, and upgrading office systems.
- Nov. 2017 **The Basement**, *UCSD*.
Helped students brainstorm and prototype a mobile app at a university incubator that provides real-time campus event tracking.
- Sept. 2018 - **CSE 141L**, *UCSD*.
Nov. 2018 Designed an accumulator-based ISA and circuitry for a special-purpose 9-bit CPU with SystemVerilog. Successfully simulated execution of four programs on it using ModelSim.
- May 2019 - **CSE 176A**, *UCSD*.
June 2019 Developed a wearable sleep-terror detection and intervention system consisting of an Arduino, PPG sensor, haptic motors, and a wifi module. The device uploaded logs to a website, triggered local light/sound systems with GET requests and a wifi power socket, and sent SMS messages via Twilio.
- May 2019 - **CSE 130**, *UCSD*.
June 2019 Implemented an interpreter for a subset of Haskell using Alex and Happy for lexer and parser generation. Extended the language to support exceptions and provided an interactive shell.
- Present **Messier Hunter**, *mh.seanssel.com*.
Developing a simple PWA that allows amateur astronomers to quickly look up specific object information in the field; uses Express, Handlebars, vanilla JS, and Tailwind.

Leadership

- Nov. 2016- **Astronomy Club Outreach Coordinator and Telescope Operator**, UCSD.
June 2019 I am passionate about amateur astronomy. I helped organize off-campus club observation events where I taught participants how to operate telescopes and locate objects in space.