

Aaron Opell

🌐 <https://aopell.me>
✉ aopell@berkeley.edu
🌐 [linkedin.com/in/aopell](https://www.linkedin.com/in/aopell)

📞 (818) 809-4738
✉ aaron@aopell.me
🌐 github.com/aopell

Education

University of California, Berkeley 2018 - 2022
B.A. Computer Science - Sophomore with Junior Standing **GPA: 3.7**

Relevant Coursework:

Data Structures • Structure and Interpretation of Computer Programs • Discrete Mathematics and Probability Theory • Principles & Techniques of Data Science • Designing Information Devices and Systems I & II • Calculus

North Hollywood High School 2014 - 2018
Highly Gifted Magnet Program **GPA: 4.5**

Work Experience

Great Minds Robotics 2017 - 2019
Programming Instructor **Los Angeles, CA**

- Guided students in learning to write computer programs using languages such as C#, JavaScript, C++, Java, and SQL
- Leveraged knowledge of desktop, web, and database technologies to help students create websites, desktop apps, mobile apps, and games
- Assisted students by demonstrating best practices for testing, debugging, and verifying program behavior
- Additionally, taught an Arduino summer program featuring circuit building, C++ programming, and digital logic

Projects and Activities

CyberPatriot Cyber Defense Competition 2014 - 2018

- Secured virtual machines running Windows and Linux desktop and server operating systems by identifying and fixing a variety of security vulnerabilities during a timed competition
- Created and tested scripts (in C#, Batch, and Bash) to automate tedious tasks and assist team members in setting and verifying security policies
- Devised strategies with team members to successfully defend our virtual systems from an attacking red team during the national finals competition
- **Achievements:**
 - Placed 2nd from among over 3000 teams in the national CyberPatriot competition (2018)
 - Placed 1st (2016, 2018) and 2nd (2017) in the California Cyber Innovation Challenge, a state sponsored competition

Schoology Plus 2017 - *present*

- Created and developed an open source browser extension (using HTML/CSS/JS) which provides new features and enhances existing capabilities of the learning management system Schoology
- Implemented features such as "what-if" grade calculations, a customizable interface editor, theming engine, and improved UX
- Reaches 3000 weekly users (and growing!) from over twenty schools in the Los Angeles Unified School District

Botball 2016 - 2018

- Proposed, designed (using HTML/CSS/JS), published, and maintained a team website featuring photos, team information, and past achievements
- Programmed autonomous robots in C and C++ to complete various movement tasks in a timed competition

Fire Alarm Monitor 2016 - 2018

- Recorded fire alarm occurrences at North Hollywood High School using a hardware device and catalogued them in a SQL database
- Designed and implemented an open source, live-updating website presenting statistics and visualizations displaying the frequency of alarms

Skills

Languages

Proficient: C# • JavaScript • Python • Java • SQL

Working Knowledge: TypeScript • Scheme/Lisp • C • C++ • Bash

Tools

Frameworks: Node.js • ASP.NET

Technologies: HTML • CSS • Git • CI/CD • Unit Testing