

# Aaron Opell

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## Education

University of California, Berkeley

2018 - 2022

**B.A. Computer Science**

**GPA: 3.6**

*Relevant Coursework:*

Data Structures • Structure and Interpretation of Computer Programs • Designing Information Devices and Systems I • Calculus

North Hollywood High School

2014 - 2018

**Highly Gifted Magnet Program**

**GPA: 4.5**

## Work Experience

Great Minds Robotics

2017 - 2018

**Programming Instructor**

**Los Angeles, CA**

- Guided students in learning to write computer programs in C#, JavaScript, and Java
- Leveraged desktop, web, and database technologies to help students create websites, desktop apps, mobile apps, and games
- Contributed to program curriculum and proposed various project ideas for students to complete

## Projects and Activities

CyberPatriot Cyber Defense Competition

2014 - 2018

- Secured virtual machines running Windows and Linux operating systems by identifying and fixing security vulnerabilities
- Created and tested scripts to assist team members in setting and verifying security policies
- Devised strategies with team members to defend our virtual systems from an attacking red team
- **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 which provides new features and enhances existing capabilities of the learning management system Schoology
- Implemented features such as what-if grade calculations and a customizable interface editor and theming engine
- Reaches 3000 weekly users (and growing!) from over ten schools in the Los Angeles Unified School District

Botball

2016 - 2018

- Proposed, designed, published, and maintained a team website featuring photos, team information, and past achievements
- Programmed autonomous robots 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 regarding 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 • React

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