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 cirriculum 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 exising 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 occurences at North Hollywood High School using a hardware device and catalouged them in a SQL database
- Designed and implemented an open source live-updating website presenting statstics 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