

Aaron Opell

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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, and Java
- Leveraged 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

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

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