

# Aaron Opell

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## EDUCATION

### University of California, Berkeley August 2018 - May 2022

B.A. Computer Science - Junior

GPA: 3.65

Relevant Coursework:

- Efficient Algorithms and Intractable Problems
- Operating Systems and System Programming
- Structure and Interpretation of Computer Programs
- Data Structures
- Artificial Intelligence
- Machine Structures
- Computer Security
- Principles & Techniques of Data Science
- Database Systems

### North Hollywood High School August 2014 - June 2018

Highly Gifted Magnet Program

GPA: 4.5

## WORK EXPERIENCE

### HiGeorge - Reconnecting Labs June 2020 - present

Software Engineer Intern

San Francisco, CA

- Developed a full-stack data visualization tool using Python Flask, MongoDB, PostgreSQL, and Angular for integration into online news articles
- Maintained ongoing communications with our CEO and business team to alter our product and company goals based on client feedback
- Built an ETL data pipeline tool using Python and Apache Airflow, powering automated real-time updates for our visualizations
- Collaborated with our UI design team to integrate new styles and interfaces into client deliverables and internal tools
- Strategized weekly with the CEO and CTO to analyze patterns in user analytics and adjust development goals based on user behavior

### Great Minds Robotics June 2017 - August 2019

Programming Instructor

Los Angeles, CA

- Guided students in learning to write computer programs using languages such as C#, JavaScript, C++, Java, and T-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

### Schoology Plus Browser Extension December 2017 - present

- Created and developed an open source browser extension (using HTML/CSS/JS) which provides new features for and enhances existing capabilities of the learning management system Schoology which allows students to interact with their grades and coursework online
- Implemented features such as "what-if" grade calculations, a customizable interface editor, theming engine, and improved UX
- Composed and maintained comprehensive documentation of features, providing clear and detailed instructions for complex capabilities
- Collected feedback by examining analytics, conducting surveys, and interacting with our users and contributors via an online chat community
- Reaches **over 30,000 monthly users** (and growing!) from hundreds of schools in the Los Angeles Unified School District and elsewhere

### CyberPatriot Cyber Defense Competition September 2014 - June 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
- Achievements:
  - Placed 2nd from among over 3000 teams in the national CyberPatriot competition (2018)
  - Placed 1st (2018, 2016) and 2nd (2017) in the California Cyber Innovation Challenge, a state sponsored competition

## SKILLS

### Programming Languages

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

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

### Development Tools

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

Frameworks: Node.js • Angular • ASP.NET • Flask • Apache Airflow