

# Aaron Opell

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## EDUCATION

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

B.A. Computer Science - Junior

GPA: 3.7

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

**Amazon** June 2021 - August 2021

Software Development Engineer Intern: Alexa Alarms Team

Sunnyvale, CA

- Designed a proposal for and planned the implementation of adding custom alarm names to alarms set via the Alexa voice assistant
- Collaborated with the Alexa Mobile team to integrate the named alarm features into the Alexa mobile app
- Conducted end-to-end testing of the feature on headless, multimodal, and mobile devices to ensure all behavior was correct

**HiGeorge** June 2020 - May 2021

Software Engineer Intern

San Francisco, CA

- Developed the majority of the backend for a data journalism tool using Python Flask, MongoDB, and PostgreSQL
- Maintained an Apache Airflow instance and other company infrastructure using S3, EC2, RDS, DocumentDB, ElastiCache, and other AWS services
- Built an ETL data pipeline creation library using Python and Airflow, powering automated real-time updates for visualizations in online articles
- 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

## 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
- 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 45,000 monthly users** (and growing!) from hundreds of schools across the world

**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: Python • C# • Java • JavaScript/TypeScript • SQL  
Working Knowledge: C • C++ • Bash • Go • Scheme/Lisp

### Development Tools

Technologies: HTML • CSS • AWS/GCP • MongoDB • Git • Unit Testing  
Frameworks: Node.js • Flask • ASP.NET • Angular • Apache Airflow