Aaron Opell

https://aopell.me | (818) 809-4738
aopell@berkeley.edu | aaron@aopell.me
linkedin.com/in/aopell | github.com/aopell

Education

University of California, Berkeley — August 2018 - May 2022
B.A. Computer Science - Junior with Senior Standing — **GPA: 3.55**

Relevant Coursework: Efficient Algorithms and Intractable Problems • Data Structures • Computer Security • Operating Systems and System Programming • Structure and Interpretation of Computer Programs • Machine Structures • Discrete Mathematics and Probability Theory • Principles & Techniques of Data Science • Designing Information Devices and Systems I & II

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, and AngularJS for integration by publishers 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 internal data automation tool using Python Flask, saving 14 hours of manual updates weekly for each member of our data science team
- 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 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 20,000 weekly 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 • Scheme/Lisp

Development Tools

Technologies: HTML • CSS • Sass • MongoDB • Git • CI/CD • Unit Testing
Frameworks: Node.js • AngularJS • ASP.NET • Python Flask