

Oliver Samuels

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Education

Boston University: Bachelor's in Computer Science

Boston, MA May 2023

Courses: Full-Stack Development, Software Engineering, Mobile-App Development, Databases, Probability in Computing, Geometric Algorithms, Fundamentals in Computing Systems, Computer Systems, Intro to Data Sciences

Skills

Technologies: Java, Python, C, C++, C#, JavaScript, TypeScript, HTML, CSS, React.js, Angular.ts, Next.js, Node.js, Express.js, MySQL, PostgreSQL, MongoDB, Google Firebase, Unity, React Native, Android Studio, Dart (Flutter), Swift, AWS, Azure, Linux, Selenium.

Industry Skills: SCRUM and AGILE project development, Leadership, Adaptability, Problem Solving.

Work Experience

The Boardroom

Remote

Software Engineer

December 2024 -Present

- Prototyped Blackboard and Canvas alternative featuring an AI assistant, designed for widespread academic use utilizing Next.js, Typescript, PostgreSQL, and AWS to develop a web and mobile applications that addresses issues with UI/UX of its competitors
- Collaborated with a team of 30 people resulting in the successful development of a web platform that attracted total investments exceeding \$50,000, for widespread official use in numerous universities and colleges.
- Worked closely with Full-Stack, Mobile app, and Machine Learning executives to enhance the long-term sustainability, usability, and future features of the platform.

Nasdaq

Boston, MA

Software Engineer Intern

June - August 2022

- Developed and prototyped conference meeting video web-application using HTML, CSS, JavaScript, PostgreSQL, GitLab, JSON, Flask-Python, and launched on to an AWS environment service with S3 bucket
- Used the Zoom API and jQuery UI to enable interactive, feature-rich group calls with captions, text, and pinned participants, enhancing the corporate user experience
- Collaborated with Audio-Visual team to develop long-term functionality for video-based boardroom web-app, for full company use in quarterly boardroom meetings, effectively replacing a 5-person team responsible for the meetings process resulting in annual savings exceeding \$42,000 per year for the company

CRACE Financial

Takoma Park, MD

Data Science Intern

June - August 2021

- Incorporated PCA and PCoA graphing to analyze the efficiency of groups generated from hierarchical clustering.
- Conducted analysis on financial statement datasets, identifying anomalies and differences within each group, contributing to company improvements and decision-making processes
- Automated generation of PCA and PCoA graphs for efficient visualization of clustering groups using Python scripts with Matplotlib and pandas. Utilized Google Sheets for in-depth analysis and observations

Test Automation Intern

June - August 2020

- Designed investor web-app working with JavaScript, CSS, X-path, basic Linux, and GitHub along with Selenium and Bootstrap.
- Collaborated with developers to extend automated Selenium tests, ensuring smooth user authentication, bug-free functionality, contributing to the successful launch of the web-app
- Automated input validation, error detection, document uploads, and user sign-up processes, while refining the calendar page appearance, saving \$16,000 annually and improving website testing for team efficiency

Projects

Music Notification App

- Full stack web-app and Mobile app development using the Spotify API to notify users of new music releases from specific sets of personalized saved artists and genres
- Integrated React.js with Node.js and Express.js backend Spotify API calls to persist artist and song data, storing preferences in a PostgreSQL database. Additionally, built Flutter mobile app, with the same functionality, to compliment the web platform
- Launched website onto Heroku and implemented mobile application using data from PostgreSQL database to allow real time notifications and banners of music release