

Steve Li

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<https://steve-li.com>

978-735-3386

Education:

Harvard University '23

Cambridge MA

Relevant Coursework: Systems Programming and Machine Organization, Data Structures and Algorithms, Machine Learning, Probability, Linear Algebra and Differential Equations, Theory of Computation

Technical Skills:

Java, C/C++, Javascript (React.js, Redux, React-Native, Vue.js, Vuex, Node.js, Electron.js, Jest, Enzyme, Puppeteer), Python, Flask, MySQL, PostgreSQL, Firebase, GraphQL, GCP, CI/CD, AWS (Amplify, DynamoDB, EC2, ECS, EBS), Docker, HTML/CSS

Relevant Experience:

Amazon | Software Development Engineer Intern

Seattle WA, June 2021 - Present

- Developed public **REST API** for resource tagging for Amazon Connect, AWS's cloud call center, designed to be shipped to **hundreds of thousands** of customers by September.
- Implemented access control support using tagging through IAM roles, allowing for resource allocation and user restriction.
- Debugged **production** code and wrote **unit/integration tests** required for **CI/CD pipelines** to maintain AWS cloud resources.

Fractal | Software Engineering Intern

Cambridge MA, Jan 2021 - May 2021

- Created testing infrastructure with **~10x** fewer bugs to ensure quality software using **Jest, React-Testing-Library, and Enzyme**, complete with **Github Actions workflows**.
- Implemented AWS resource tracking with **logz.io docker** integrations and slack notifications through **Github Actions workflows** to monitor **EC2 instances** and **ECS clusters**, saving **thousands of dollars** in sunk costs.
- Developed **Electron.js app** and **Flask Python webserver** functionality with **e2e** and documentation.

Pine Park Health (YC S18) | Software Engineering Intern

Berkeley CA, May 2020 - Sept 2020

- Created **frontend** UI elements to display user tasks and patient symptoms, increasing **productivity** and ensuring patient safety using Vue.js for Toggbok, an application aimed at managing medical staff in assisted living communities.
- Implemented **REST API** using PostgreSQL and Node.js, to manage and store **thousands** of patients and staff over **21** health-care facilities. Improved automation and monitoring by creating a streamlined data platform connecting a central store to the database, saving **days** of manual labor.

HSA Dev | Full-Stack Engineer

Cambridge MA, Dec 2019 - June 2020

- Designed buyer and deliverer mobile applications for Hopp, a snack delivery service for college students on campus.
- Constructed an **administrative dashboard** to view sales and monthly reports to improve **product management**.
- Created an **API** backend using **GraphQL** connected with an online **Shopify** store to control products and student runners, developed UI designs with **React** and **React-Native**.

Software Projects:

WeensyOS (C++)

Designed a kernel for WeensyOS, a miniature operating system complete with **physical** and **virtual** memory, **forking**, and **kernel** isolation.

Personal Website (Bootstrap 4, HTML, CSS, and JS)

Full frontend website, designed using HTML and CSS to display personal projects and interests.

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Spotify Curator (Python, Flask, Pandas, Scikit-learn, React.js)

Devised a song preference predictor by analyzing playlists and liked songs on Spotify. Utilized a random forest classifier to examine empirical song data from a user to predict whether they would like an inputted song or not. Tuned to perform at 75% accuracy.

Shell (C++)

Created a full-fledged command shell with functionality for **fork**, **exec**, **interrupts**, **pipes**, **background processes**, and **redirects**

Clubs and Activities:

Wave Learning Festival | Technical Co-Director

Built frontend **React.js** app with **e2e** testing used by over **10000** students **worldwide** in more than **60** countries. Redesigned technical workflow by creating **CI/CD** infrastructure on **AWS Amplify** servers with **dynamoDB** Backend and **GraphQL**.

California, April 2020 - Present

Harvard Undergraduate Data Analytics Group | Analyst, Associate

Co-lead a team of six members on a Data Science research project for an Athletic Clothing brand. Developed metrics based on user-data and customer insights to provide valuable action items.

Cambridge MA, Sept 2020 - May 2021

Harvard Radcliffe Orchestra | Oboist

Oboist for HRO, Harvard's premier student orchestra.

Cambridge MA, Sept 2019 - Present