STEVEN TRUONG

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EDUCATION

University of California, Los Angeles   October 2020 – Present
Mathematics, Ph.D. (Expected 2025)
> Research interests: functional analysis
> Qualifying exams passed: Basic

University of California, Los Angeles   August 2016 – June 2020
Mathematics of Computation, B.S., and Mathematics, M.A. (dual degree)
> GPA: 3.95 / 4.00
> Honors: Sherwood Prize, Departmental Scholars Program, Departmental Honors, Summa Cum Laude

EXPERIENCE

Amazon Devices, Lab126   June 2020 – September 2020
Software Development Intern
> Wrote both the front-end and the back-end for a data analysis and visualization tool
> Used React.js to build a front-end that uses OpenStreetMap and OSRM to visualize and quantify data accuracy
> Wrote the back-end in Node.js, which queries AWS Elasticsearch instances and ingests data

Amazon Web Services, Service Quotas   June 2019 – September 2019
Software Development Intern
> Wrote code in multiple packages for multithreaded servers and AWS Lambda functions in a distributed system
> Designed and implemented an API in Java that enables Service Quotas to notify customers of changes to their quota increase requests, which allows them to speed up deployment flows by listening for these notifications
> Applied whitelisting strategies to enable safe and controlled rollout of code across various deployment stages

buckit, a Los Angeles bucket list   April 2019 – December 2019
Back-End Developer
> Helped write a Node.js back-end from scratch, and helped design and implement several API endpoints
> Refactored the code base in order to use dependency injection, which decoupled API endpoints from our database
> Configured several test-related libraries to write and run tests, and wrote unit tests to cover several modules

BruinMeet, a UCLA dating app   December 2017 – August 2019
Back-End Developer
> Used JavaScript, Node.js, and AWS to implement various modules and API endpoints
> Implemented a module to store and manage pictures on an Amazon S3 bucket, which allowed users to upload custom profile pictures
> Created a scalable notification system with a simple interface for both the development and product teams
> Designed and built a new matchmaking cycle with full test coverage of its main components

PROJECTS

PUG Bot, a Discord bot that manages pick-up games   July 2018
Developer
> Written entirely in Python with a modular, object-oriented design
> Increased the ease and efficiency in organizing games in a personal Discord server, encouraging members to participate more often
> Used by several other Discord servers to organize pick-up games for various games

AOS Zodiac, a Google Apps project used by professors to manage boating trips   January 2019
Maintainer
> Refactored and cleaned up the project by removing unnecessary and duplicated code, splitting the code into different components, and making the code more maintainable by organizing code in each component
> Implemented a cron job to remind students of boating trips they signed up for
> Created and modified HTML templates for e-mails, adhering to the department's and school's brand guidelines

LANGUAGES

> JavaScript (TypeScript, Node.js, React.js), Java, C++, Python, MATLAB, R, LaTeX, HTML/CSS