

George Zhuang

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Education

Cornell University

Ithaca, New York

BACHELOR OF SCIENCE CANDIDATE IN COMPUTER SCIENCE | 3.7 GPA

Expected Graduation: May 2023

- Relevant Coursework: Object-Oriented Programming and Data Structures · Discrete Structures · Functional Programming · Systems Organization · Algorithms · Operating Systems · Computer Vision · Artificial Intelligence · Machine Learning · Programming Languages
- Campus Organizations: Global China Connection · Hack4Impact · Theta Tau Professional Engineering Fraternity

Skills

Programming Java · Python · JavaScript · Go · C · Swift · OCaml

Other Tools HTML/CSS · Node.js · React.js · React Native · Express.js · MongoDB · SQL · AWS EC2 & VPC · Git · Scikit Learn

Professional Experience

MongoDB

New York, New York

SOFTWARE ENGINEERING INTERN | CLOUD INSIGHTS AND TELEMETRY TEAM

June 2021 - August 2021

- Implemented HTTP request option parser and validator in the back-end server and monitoring agent to send additional parameters via RESTful API requests to AWS EC2, enabling time series data collection creation and configuration in the online database interface for 15000 plus Atlas users
- Added UI elements and updated components for compatibility with time series collections and the novel design system introduced in MongoDB 5.0
- Modified slow query log processor to extract additional information and classify database operations by collection type in the visual query profiler
- Edited end-to-end tests and wrote unit tests and integration tests to target novel time series collection features and the new UI document structure

Way

Remote

SOFTWARE ENGINEERING INTERN | IOS TEAM

May 2020 - June 2020

- Programmed on-boarding flows and responsive sizing for the merchant and customer apps serving 6 restaurants with over 200 daily transactions
- Reviewed pull requests, refactored the existing codebase, and changed the file structure to improve readability, reusability, and logical flow

Extracurricular Activities

Hack4Impact

Ithaca, New York

FULL STACK SOFTWARE ENGINEER

March 2021 - Present

- Created a transportation request form to process and store matches between elderly users and volunteers made by volunteer managers
- Critiqued and contributed to team-member deliverables during code reviews, joint-work sessions, and ideation discussions

Cornell University

Ithaca, New York

TEACHING ASSISTANT | CS3110 DATA STRUCTURES AND FUNCTIONAL PROGRAMMING

August 2020 - Present

- Prepared and taught material based on the feedback of 12 students regarding interests and confusions during a weekly 75-minute recitation section
- Fielded student questions regarding functional programming concepts, course assignments, and course logistics during 3 weekly office hours
- Assessed learning challenges through grading exams and assignments, managing final project goals, communicating through online channels

Develop for Good

Remote

FULL STACK SOFTWARE ENGINEER | AMELIORATE TEAM

September 2020 - November 2020

- Developed reusable front-end components and pages for Q&A threads, database search, organizational information, and chat using React.js
- Built RESTful API services to handle user authentication, data validation, and data upload and retrieval using Express.js and Google Firebase
- Spearheaded technical discussions regarding data model design and third-party tool use to respectively maximize scalability and minimize cost

Projects

Scann

June 2020 - August 2020

- Designed and pitched a technology startup to reduce food waste by conducting customer interviews, generating product wireframes, analyzing market players, comparing product feasibilities, and learning software architecture and best practices
- Built an iOS app to catalog items, store purchases and preferences, manage expiry, and suggest recipes using Swift, Node.js, and MongoDB

Corona Caretaker

June 2020

- Designed a chatbot trained on over 40 intents to conversationally educate users about information and misinformation regarding COVID-19
- Implemented the interactive web front-end and natural language handling using React.js and Google Dialogflow