Bella Le

Software engineer

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Education

University of California, San Diego — *La Jolla, California*

Computer Science, B.S. • Minor: Cognitive Science — *September 2016 - March 2020*

GPA: 3.79, Cum laude

Relevant coursework: Design & Analysis of Algorithms, Principles of Operating Systems, Programming Languages, Database Systems Principles, Computer Security, Computer Architecture, Compiler Construction, Recommender Systems & Web Mining, Data Science

Experience

Quora, Inc. — *Mountain View, California*

Software engineer — *August 2020 - Present*

- Incoming software engineer at Quora, Inc. for September 2020.

Amazon.com, Amazon Attribution Engineering — *New York, New York*

Software Development Engineer Intern — *June 2019 - September 2019*

- Developed and integrated portions of the Amazon Attribution website, refactoring from legacy JavaServer Pages (JSP) code to React.js and devised unit and snapshot tests with Jest and Enzyme to test the robustness of React.js components and functions.
- Resolved tickets for new features and bug reports and created a mechanism to automatically generate tickets in case of failures.
- Implemented bulk upload operations for Facebook advertising, a feature demanded by over 70% of Attribution users, utilizing AWS Lambda, AWS CloudFormation, AWS Step Functions and React.js while modifying internal services for file validation and ingestion.

Amazon.com, AAA — *Seattle, Washington*

Software Development Engineer Intern — *June 2018 - September 2018*

- Designed and implemented a project that facilitated the migration of internal data utilizing AWS services such as AWS CloudFormation, AWS Lambda, Amazon Simple Cloud Storage Service, and Amazon DynamoDB to an internal data lake with near real-time updates.
- Refactored internal data to improve processing, to secure access with client-side encryption, and to filter confidential information.
- Devised unit tests with the Mockito mocking framework as well as integration tests to ensure project integrity and functionality.
- Communicated with external teams to ensure that specific features are created and needs are met for use cases.
- Improved data update latency from 24 hours to an average of 10 minutes and reduced data size by 1,000x.

UC San Diego, CSE 101: Design & Analysis of Algorithms — *La Jolla, California*

Computer Science & Engineering Tutor — *January 2019 - December 2019*

- Managed the logistics of a 360-student course via grading coursework and preparing lecture slides to express visualizations of algorithms.
- Held office hours twice per week and 1-on-1 sessions 2-4 times per week to communicate ideas on applications of algorithms to students, helping to resolve issues in their coursework and assisting in preparations for exams and cultivate understanding.
- Assisted in writing quiz and final exam problems to test understanding of algorithms, including divide-and-conquer algorithms, greedy algorithms, dynamic programming, and graph algorithms.

Projects

Blueprint — *Python*

Web Application — *Winter 2019*

- Utilized AWS Lambda and Amazon S3 to facilitate generation of HTML webpage templates from images with Tensorflow and OpenCV.
- Implemented a REST API using Amazon API Gateway allowing for database integration and authorization with Amazon DynamoDB as well as interactions between the frontend and serverless backend.

Skills

Programming Java, C++, JavaScript, Python, C, SQL, HTML/CSS, JavaServer Pages (JSP)

Tools & Frameworks React.js, Amazon Web Services, JUnit, Mockito, Jest, Enzyme