

# Jason Liu

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## PROFESSIONAL EXPERIENCE

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### Google

*Software Development Engineer III*

*February 2022–Now*

- Developed Google One's growth infrastructure, surfacing user and subscription signals to consuming services
- Launched VPN and dark web monitoring security benefits, supporting \$1b in revenue and 70% yoy growth
- Utilized Java, C++, and Google spanner for feature design and development

### Amazon Web Services (AWS)

*Software Development Engineer II*

*October 2021–February 2022*

- Led new back-end architecture aiming to reduce region build times from eight months to four weeks
- Designed and optimized graph-heavy algorithms to ensure validity of dependencies on a per-change basis

*Software Development Engineer*

*May 2020–October 2021*

- Developed validation system for build date calculations and new cycle detection reporters
- Leveraged AWS services including DynamoDB, Lambda, and S3 with Java and Python for development

### JP Morgan Chase

*June–August 2019*

*Software Development Intern*

- Developed analytic application for American Depository Receipt (ADR) tracking billions in investments
- Designed architecture for ADR data in OracleDB and utilized Spring and Spring Integration, Redux, Axios
- Tested features with JUnit for unit testing, Cypress for end to end testing, and Jenkins for integration testing

### Capital One

*June–August 2017 and 2018*

*Associate Software Engineers*

- Developed components and widgets for banking application, working with Angular 2.0 and Java
- Tested endpoint responses with Mountebank and created end to end testing with Cucumber and Protractor

### Brain Health Alliance

*Software Intern*

*June–September 2016*

- Investigated potential of machine learning based web scraper for research focused semantic web
- Implemented a NoSQL MongoDB database with Mongoose ODM to store research metadata

## PROJECTS

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### Real-time Chat Semantic Stock Analyzer

- Analyzes text in real time on discord using Python and Keras, providing a granular source of stock sentiment
- Designed around resource constraint for real-time NLP by aggressively pre-processing streams of data
- Created a low-level execution of lemmatization and noise filtering as a proof of concept

### Flight and Hotel Price Scraper

- Aggregates data from flight and hotel sites to find the best price
- Utilized Python, Selenium, and AWS EC2 to continuous poll for price comparisons

## EDUCATION

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### University of Wisconsin-Madison

Bachelor of Science- GPA: 3.82

*Madison, WI*

*Sept. 2017–May 2020*

*Major: Computer Science; Minor(s): Mathematics, Business*

## HONORS AND ACHIEVEMENTS

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“Genetic Algorithm Based Descension for Improved Hyperparameters on Low Layer NN ” Author

2019

“New and Old Regulatory Politics in the Airline Industry” Research Contributor

2019–2020

*Developed script for analytics and data scraper for airline data*

Academic Dean's List

2017–2020

## SKILLS

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Programming Languages: Java, Python, JavaScript, C

Frameworks: Guava, Keras, PyTorch, React

Design Patterns: Pubsub, Orchestration, Load Balancing

Testing: JUnit, Pytest, Jest, Cypress

Misc: Git, Linux, Jira, Jenkins