Jason Liu

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PROFESSIONAL EXPERIENCE

Amazon Web Services (AWS)
Software Development Engineer II   *October 2021–Now*
- Lead 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 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

Associate Software Engineer   *June-August 2017*
- Created internal analytical software to analyze financial health using AngularJS, Groovy, and Karma
- Learned and used Agile methodology by attending daily scrums, standups and using tools such as Jira

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

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

University of Wisconsin-Madison   *Madison, WI*
Bachelor of Science- GPA: 3.82   *Sept. 2017–May 2020*

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

HONORS AND ACHIEVEMENTS

"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	
Hack the North - Hardware Hack Award	*2018*
Academic Dean's List	*2017-2020*

SKILLS

Programming Languages: Java, Python, JavaScript, C   Testing: JUnit, Pytest. Jest, Cypress
Frameworks: Guava, Keras, PyTorch, React   Misc: Git, Linux, Jira, Jenkins
Relevant Interests: Data Modeling and Neural Networks