Andrew Chau

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University of California, Los Angeles

Expected Graduation: June 2021

- BS Computer Science, 3.68 GPA
- **Related Coursework:** Distributed Systems, Operating Systems, Computer Networks, Database Systems, Algorithms and Complexity, Machine Learning, Linear Algebra, Mathematical Statistics

Work Experience:

3Diligent, *Backend Software Engineering Intern* March 2020—Present

- Integrated Twilio API to enable SMS and voice calls between site administrators and users.
- Implemented email and website notifications using Java Spring Boot for communication services between customers, vendors, and site administrators.
- Utilized Cucumber to build automated, end-to-end API tests to streamline and improve the consistency of deployments.

SAS Institute, *Technical Intern* June 2019—August 2019

- Ensured integrity of SAS Cybersecurity data processing by building and operating a customizable test automation suite in Bash and Python.
- Integrated automation suite into web interface using Jenkins Pipelines to run tests on both local and customer deployments.
- Developed tests in Jupyter Notebooks using Python Pandas to validate data transformations.

SuperMoney, *Engineering Internship* June 2018—September 2018

- Built framework to match users with highly rated companies and directly request financial quotes from them to improve user experience and workflow of product comparison pages.
- Developed loan calculator widget to estimate a user's APR by matching him or her with similar peers in the database and averaging offers they received.

Skills:

Languages: Python, Go, JavaScript, Java, C++, C, SQL, Bash, PostgreSQL, HTML, CSS
Technologies: Pandas, Jupyter, SKLearn, Git, Linux, Nodejs, PostgreSQL, S3, Spring Boot, Neo4j, MongoDB

Personal Projects:

Sharded Key-Value Store, *Go* April 2020—May 2020

- A distributed key/value server featuring a fault-tolerant configuration service and replicated server groups. The configuration service automatically balanced load between replica groups.
- Utilized a self-written Paxos library to guarantee fault-tolerance in replica groups and the shardmaster.

Taxi Ride Duration Model, *Python3 / Jupyter Notebook / SKLearn* March 2020

- Machine learning SVM model trained on over 80,000 data points to predict taxi ride durations in Manhattan. Utilized complex feature selection and engineering, such as using PCA to separate the city into Upper, Lower, and Midtown Manhattan.
- Applied cross validation on several SVM kernels and hyperparameters to select the final model.

Crossword Solver, *Python3 / Neo4j* July 2019—August 2019

- Solved crossword puzzles by matching clues with common English words and phrases,
- Trained with data scraped from all available *New York Times* crossword puzzles since 1942.