

Alvin H. Ng

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EDUCATION:

UNIVERSITY OF CALIFORNIA, LOS ANGELES

June 2019

B.A., Economics

Relevant course: Econometric Model; Information Technology in Accounting (Excel); Communication Technology, Programming, and Accounting; Python with Applications; Programming for Internet; Econometric Modeling; Economic Forecasting

Leadership: Ascent at UCLA, Vice President of Professional Development

UCLA EXTENSION

August 2019

Full Stack Web Development

WORK EXPERIENCE:

FREQUENCY NETWORK INC.

Los Angeles, CA

Data and Quality Assurance Engineer

Jan 2020 – Present

- Developed and implemented a detailed client revenue analyzation tool within our product:
 - Within first month of deployment, helped our client discover \$200,000 worth of missed advertisement opportunities.
 - Designed and developed data pipeline through varies services such as MySQL, AWS Kinesis Firehouse, Cloudwatch, MediaTailor, S3, Redshift, and Quicksight.
 - Researched GDPR and CCPA (Europe and California Privacy Law) to ensure our process adhere to the standard.
 - Developed and maintained multiple data pipelines using languages such as Python, Node.js, and SQL. Libraries and packages used includes but not limited to AWS SDK, Pandas, Apache Spark, MaxMind Geo IP, and many more.
 - Worked with external vendors to acquire data, solve problem based on our usages, and negotiated better pricing.
 - Drafted and maintained multiple internal documentations for the process.
 - Created Internal API to perform ETL functionality within our data lake and data warehouse.

Technical Account Manager Intern

Aug 2019 – Jan 2020

- Technical Role:
 - Create API testing scripts using Postman and integrate them with our internal server for automation using Jenkins.
 - Used Google App Scripts to transform XML in accordance to our own format and improve ingestion rate by 40%.
 - Writing and Validating JIRA tickets to improve front-end user experience.

ORNUS CAPITAL

Los Angeles, CA

Data Analytic Intern

Apr 2019 – July 2019

- Developed Python scripts to scrape online data and provide further analysis through python Pandas and Numpy packages.
- Improved frontend code efficiency by 150% and included mobile responsive for the website.
- Forecasted cryptocurrency trend using data from our proprietary algorithm that utilize twitter and reddit sentiment.

PROJECTS:

SIGNED (<https://luvkylo.github.io/signed>)

Los Angeles, CA

Co-Author

May 2019

- Created clickable map using D3.js for better user experience and faster searching experience.

WARHAMMER 40K DATA PARSING (https://github.com/SMLM42/BCP_Project)

Los Angeles, CA

Co-Author

July 2019

- Created a data parsing algorithm for Best Coast Pairing to separate between ETC and simplified data format.

NEUYOU

Los Angeles, CA

Co-Author

Aug 2019

- Created solution to upload and download files using AWS S3 and FileSaver.js in React Native and created API solutions in working with our MongoDB.

INTERSTS & SKILLS:

- *Programming:* JavaScript, Python (Pandas and sklearn library), SQL, HTML, CSS, PHP, R.
- *System Proficiency:* Tableau data visualization, AWS, Excel (PowerPivot, Power BI), and Office 365.
- *Basic Machine Learning Concept:* Markov Chain Monte Carlo (MCMC), Hidden Markov Model (HMM), Bayesian VAR, Bias/Error Tradeoffs, Ridge regression, LASSO, Decision Tree, Bagging/Bootstrapping, and Neuro-network.
- *Languages:* bilingual in Mandarin/English; bilingual in Cantonese/English.
- *Interests:* Reading, hiking, playing piano, playing computer games, rugby, full marathon runner.