Curtis Chong

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Skills

Backend Languages: Golang, C++, C, Python, Node.js, TypeScript
Infrastructure: SQL, GraphQL, Postgres, InfluxDB, Docker, AWS, EC2
Application Development: TypeScript, React, Swift, HTML, CSS, JavaScript, jQuery

Work Experience

Software Engineering Intern at BitGo Inc (Golang, GraphQL, Postgres) — Jan - April 2020

- Received a **perfect performance evaluation** (bit.ly/bitgo_eval).
- Wrote trading algorithms to place orders across crypto exchanges at the best prices (Sweep and TWAP).
- Created race-free state machines and incorporated balance tracking services into the trading algorithms.
- Built a server state logger using rotating Protobuf files to snapshot order books, client orders, and balance updates.
- Developed a testing suite that simulates incoming requests and market conditions over time to ensure engine stability.
- Reverse engineered undocumented APIs to reconcile discrepancies between account balances and accounting line items.

Software Engineering Intern at Kik Interactive (Python, Docker, SQL) — May - Aug 2019

- Rebuilt the A/B testing system in Python to simplify demographic segmentation and result visualization for managers.
- Integrated data from AWS Kinesis Streaming to quicken spam classification **from 5 to 2 minutes**.
- Provisioned Docker environments to host Airflow jobs allowing for engineers to consistently schedule jobs.
- Engineered a SQL testing framework that laid the groundwork for proper testing across all data science projects.
- Shipped jobs to monitor data relevance and to identify uncaught spam accounts which accelerated spam terminations.

Software Engineering Intern at Big Terminal Inc (Node.js, TypeScript, InfluxDB) — Aug 2018

- Developed a Node.js server that identifies arbitrage opportunities on cryptocurrency markets to traders on Slack.
- Wrote a bot to lend USD at favourable rates, allowing for higher capital utilization.

Data Scientist at Flipp Corporation (Python, Pandas, Scikit-Learn) — July - Aug 2017

- Evaluated as a **top employee in the 95th percentile** (bit.ly/flipp_eval).
- Created a Python resume parser that was capable of categorizing sections and outperformed licensed tools.
- Engineered and tuned an ML ensemble to a **precision of 0.598** which filtered out candidates with poor resumes.
- Generated N-grams, a bag-of-words, and a hand-picked dictionary as a feature space for modelling.
- Frequently sought out meetings with the Talent team to present findings and to shape business direction.

Awards (Hackathon Count: 26 | Wins: 13)

First Place at the Fall 2019 YC Hackathon (225 participants | TypeScript | bit.ly/prj_hyperdoc)

- Invented a tool to read and write docs directly within VSCode, consolidating previously scattered code documentation.
- Developed a documentation editor within VSCode that avoids merge conflicts and allows for in-code hyperlinks.

Winner at Hack the North 2019 (1500 participants | TypeScript, Python | bit.ly/prj_complete)

- Created a VSCode extension that helps developers write code faster by autogenerating functions from pseudocode.
- Blitzed through the VSCode API documentation, then developed the client, middleware and optimized network requests.

Winner at Hack the North 2016 (1000 participants | Angular, Node.js, SQL | bit.ly/prj_agrigate)

- Engineered a dashboard that uses satellite data from NASA and Ontario's land surveys to identify crop growing conditions.
- Built a statistical model to project future crop prices and help farmers determine selling opportunities.

Second Place at MHacks 9 (300 participants | React, Firebase | bit.ly/prj_recap)

- Created a text editor that archives a presenter's audio to provide further context behind student notes.
- Developed middleware to fetch and align audio recordings from FirebaseDB with edited notes.

Education

Honours Bachelor of Software Engineering Co-op | University of Waterloo — (Expected) 2018 - 2023