Akshath Chaudhary

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EDUCATION

University of Waterloo   September 2019 – May 2024
3B, Bachelor of Computer Science; ***CGPA: 3.90/4.00***   *Waterloo, ON*
- **Awards**: *Dean's Honours List, Concept Entrepreneurship Funding Recipient, Intramural Soccer finalist*
- **Relevant Coursework**: *Data Structures and Data Management, Object-Oriented Software Development, Algorithm Design and Data Abstraction, Operating Systems, Combinatorics, Probability*

TECHNICAL SKILLS

- **Languages**:   C++, Python, C, Java, Go, Ruby, JavaScript, HTML/CSS, R
- **Frameworks**: React, Node.js, AWS, NLP, SQL (Postgres), OpenCV, Django, Angular.js, Vue.js
- **Tools**:   Git, Docker, Kubernetes, VIM, GDB, GCOV/LCOV, TravisCI, Google Cloud Platform
- **Libraries**:   MongoDB, NumPy, Pandas, Scikit, TensorFlow, Boost C++, Tatum

RELEVANT EXPERIENCE

Meter   January 2022 – May 2022
Software Engineer   *San Francisco, CA*
- Developing next-generation volumetric imaging technology as an incoming Software Engineer intern.

Huawei   May 2021 – December 2021
Software Engineer   *Toronto, ON*
- Improved runtime of **FPGA** Static Timing Analysis (STA) by **over 88%** via a conditional incremental algorithm using Boost that identifies and updates the subset of modified edges and nodes in the netlist.
- Spearheaded development of a testing framework that increased code coverage by **120%** using **CMake**.
- Implemented a path delay validator that estimates all core point to point delays using node aggregation.

Unite   July 2020 – August 2020
Lead Full Stack Developer   *Waterloo, ON*
- **Promoted** to Lead Full Stack Developer for excellent performance. Led a team that was in charge of designing, developing, testing, and documenting new and existing features for Unite's web applications.
- **Saved $20,000** for the company by refactoring the existing codebase to exclude Google's restricted scopes. Successfully led the security assessment verification from Google with a turnover of just 2 days.
- Decreased product delivery time from **2 days to 10 seconds** by developing and integrating a custom Node.js module that automates deployment via direct addition of the product to the user's account.

Full Stack Developer   May 2020 – June 2020
- Designed and developed a social community platform from scratch using Node.js for the company's users to come together, demo, and vote for their favourite products in a record time of **under 2 weeks**.
- Search Engine Optimized Unite's main website that resulted in a **65% increase** in traffic over 4 weeks.
- Optimized the existing codebase by compressing heavy content and prioritizing above the fold content that resulted in a 45% decrease in loading time and a **110% increase** in Google PageSpeed Index score.

PROJECTS

Taco | *NLP, React.js, Express,js, Firestore, Python*   June 2021
- Implemented a unique quantitative speech analysis algorithm using GCP NLP, Express.js, and Firestore that returns a score based on the user's confidence, clarity, and syntax. Built the frontend using React.
- Declared as the **overall winner** of EngHacks 2021 and secured the first prize among **300+** hackers.

AlgoTrading Bot | *Python, Pandas, NumPy*   April 2021
- Developed a stock trading bot that has been backtested with an ROI of 18% over 4 months.
- Implemented a strategy that combines Renko charts and MACD indicator and used it on volatile stocks.