YiFei Tang
Software Engineer

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◔ Experience

Stripe — San Francisco, CA
Software Engineer II - Merchant Fraud Decisions — *May 2024 – Present*
> Building large scale features to reduce/prevent merchant fraud, programming in Ruby, Java, Scala
> Optimizing fraud prevention tools using technologies like Kafka, Flink, Spark, MongoDB

Amazon Web Services — Vancouver, BC
Software Engineer II - Amazon MQ — *June 2021 – April 2024*
> Added AWS support for quorum queues, a RabbitMQ feature based on the raft consensus algorithm
> Created a broker auto-healing engine with AWS services that eliminated 90 high severity tickets a year
> Led the migration of the MQ AWS console from Angular to React: wrote UI, infrastructure and test code
> Built cloud architecture with services such as EC2, EBS, Lambda, Step Functions, DynamodDB, etc
> Ensured operational excellence by resolving alarms, root causing and identifying prevention strategies
> Trained and interviewed new SDEs, mentored 2 interns who delivered developer productivity features

Amazon Web Services — Vancouver, BC
Software Engineer Intern - Amazon MQ — *May 2020 – Aug 2020*
> Designed the architecture and functionality of a tool to quantify and reduce operator SSH usage
> Deployed a Python application, integrated with AWS services including Cloudwatch, RDS, S3, CloudFormation

National University of Singapore — Singapore
Machine Learning Research Intern — *May 2019 – July 2019*
> Developed an application with a PyQt GUI to classify medication from live webcam video using OpenCV, Scikit-Learn and Tensorflow with 97% accuracy

⚗ Projects/Competitions

Amazon MQ Hackathon 2022 - *Winner* - Added support for optimized EC2 instances, reducing costs by 50%
UofTHacks 2020 - *Finalist* - A website using ML to recommend environmentally friendly outfits - React, Python
Hack the North 2019 - *Winner* - An app providing students with financial and environmental shopping advice
Cineyet - *Personal Project* - A social media app for cinephiles - Android Studio, Firebase, Java, IMDB API

🎓 Education

University of Toronto, St. George Campus
BASc Computer Engineering – GPA: 3.57/4 – Dean's Honour List x3 — *2017 – 2021*
Activities: Director - UTEK Coding Competition, VP - Engineers Without Borders, Autonomous Rover Computer Vision Engineer, Lifeguard/First Aid Instructor

⚙ Skills

Languages: Python, Java, JavaScript, TypeScript, C, C++, Ruby, SQL
Technologies: AWS, DynamoDB, EC2, Message Queues, Docker, NodeJS, ReactJS, MongoDB, TensorFlow