YiFei Tang
Software Engineer

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◔ Experience

Amazon Web Services
Software Engineer II - Amazon MQ   *June 2021 – Present*

> Built an MQ 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
> Led the MQ broker creation cancellation project, eliminating 100 customer CloudFormation failures a year
> Ensured operational excellence by resolving alarms, root causing and identifying prevention strategies
> Trained and interviewed new SDEs, mentored 2 interns who worked on developer productivity features

Amazon Web Services
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 package, integrated with AWS services including Cloudwatch, RDS, S3, CloudFormation
> Wrote unit and integration tests, demoed product to the team and contributed to the team's wiki

National University of Singapore
Machine Learning Research Intern   *May 2019 – July 2019*

> Developed an application with a PyQt GUI to classify medication from live webcam video
> Used OpenCV to identify pills from a screen and K-Means clustering with Scikit-Learn to extract HSV value
> Additionally trained a CNN built with TensorFlow to recognize 6 pills, achieving 97% accuracy on test set

⚗ 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, Message Queues, Docker, ReactJS, Android SDK, TensorFlow, OpenCV, PyTorch