Andy Yang

Toronto, ON | 647.918.1999 | andyyang5363@gmail.com

LinkedIn: linkedin.com/in/zongye-yang **GitHub:** github.com/andyzyang **Portfolio:** andyzyang.github.io

EDUCATION

HBSc, Computer Science *University of Toronto* 2017 - 2021

TECHNICAL SKILLS

- **Proficient:** Python, Django, Java, Spring Boot, SQL, PostgreSQL, C, React, TypeScript, JavaScript, AngularJS, Node.js, Git, AWS**,** HTML5, CSS3, Selenium, MongoDB, SQLite, YAML, Jenkins, Sentry

RELEVANT EXPERIENCE

PartsAvatar | Software Developer | Toronto, ON Apr 2024 - Present

- Spearheaded a project to automate order placement with our auto part suppliers, which was previously done manually. By implementing a series of AWS workflows using Java, Spring Boot, and Selenium, I removed 100% of the manual purchasing work with current suppliers. Saving up to 30 hours worth of work per week.
- Worked on the front and back end of our internal Customer Service and Fulfillment apps and microservices to deliver and own many different features end-to-end. Done by using JavaScript, React, AngularJS, and Java.
  - New features include: Auto-processing packing slips, stow back prepacked shipments, optimal stowing algorithm
  - Shipment carrier integrations with our rate-shopping algorithm, employee discount, local workstation server
- Fixed faulty implementation of multithreaded execution in our label generation process by properly using Java thread pools, decreasing asynchronous wait time from 15 seconds to 5 seconds per shipment label.
- Root-caused and fixed many bugs such as improper object marshalling and race conditions using Java, AWS.
- Re-wrote our in-house operations app from legacy AngularJS frontend to modern React code. Completely removing 8 years' worth of vulnerabilities and performance issues and the project was finished within 2 months.

Amazon | Software Development Engineer |Toronto, ON Apr 2022 - Mar 2023

- Streamlined on-call operations by developing a client-facing script using Bash, Linux, and SQL, resulting in an 80% reduction in investigation time for common issues.
- Successfully implemented the major release of Aurora PostgreSQL (Version 15) by utilizing Git to resolve merge conflicts, C, and SQL. Completed the release 1 week before schedule, preparing it for testing and subsequent stages.
- Provided immediate support and issue mitigation to customers while on-call, addressing PostgreSQL, AWS, Aurora, resource management, SQL, and replication issues. Achieved a resolution rate of over 98% for incoming tickets, significantly improving customer experience.
- Debugged and implemented bug fixes for Aurora PostgreSQL 15, utilizing GDB, C, pgbench, and in-depth knowledge of PostgreSQL. Swiftly resolved urgent or blocking issues, ensuring the benefits of PostgreSQL 15 while retaining Aurora enhancements.
- Fixed multiple extension-related issues on Aurora PostgreSQL, including known problems and customer-reported bugs. Utilized PostgreSQL, DDB, C, and code tracing techniques. Demonstrated an improved customer sentiment and consistently delivered at least 2 important Jira tickets per sprint.
- Developed and maintained the CI/CD pipelines for all Aurora PostgreSQL releases using YAML and Infrastructure-as-Code, ensuring automation of testing and deployments, and increasing test coverage.

ML Analytix | Software Developer |Toronto, ON May 2020- Dec 2020

- Built an application written in Python to scan uploaded photos and classify them based on certain features, like briefcases with tags attached to them. Using Python, Django, Tensorflow, and Celery with RabbitMQ. Able to classify images asynchronously at a rate of 1000 images per minute.
- Designed the UI and implemented the front end of this application. Using React, Redux, Javascript, and CSS. Resulting in a responsive web UI that matches the designed wireframe.
- Built a tool that can perform image-enhancing actions such as denoising or rescaling. Using Python, OpenCV, and machine learning. Improving the accuracy of classification to 90%.

Faculty of Arts & Science, UofT | Application Developer | Toronto, ON Jan 2019 - Aug 2019