

# Andy Yang

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GitHub: [github.com/andyzyang](https://github.com/andyzyang)

Portfolio: [andyzyang.github.io](https://andyzyang.github.io)

## EDUCATION

**Bachelor of Science, Computer Science** *University of Toronto*

Nov 2021

GPA: 3.3/4.0

## TECHNICAL SKILLS

- **Proficient:** Python, Java, SQL, PostgreSQL, C, React, JavaScript, Node.js, Express, Git, AWS
- **Exposure:** HTML5, CSS3, Django, AngularJS, MongoDB, SQLite

## PROJECT WORK

**Workout Planner | Full-stack Developer** | <https://github.com/andyzyang/workout-planner>

2021

*Mobile app to track fitness progress and plan workout sessions.*

- Worked on the Backend API with AWS Amplify and UI elements such as graphs for visualization and loading animation using Flutter, Dart, AWS Amplify, and third-party integration, resulting in an A grade

## RELEVANT EXPERIENCE

**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 ahead of 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 bug fixes per sprint.

**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 that have 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

- Maintained the CHASS database through daily monitoring, troubleshooting, and optimization. Performed Linux administration, updated Apache Tomcat configurations, and managed cron jobs. Resulting in 99% service uptime and a 50% reduction in system downtime.
- Streamlined ETL operations by removing redundant data traversals and manual operations, using Python and Linux scripting. Reduced almost all manual interventions, and increased the data load speed by 30%
- Created a script that would generate a usage report given the access logs. Using Bash, Python. Replaced the existing generator script, reducing the time needed from 10+ hours to 30 minutes, and reducing the margin of error by 80%