ANGUS LEE

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EDUCATION

University of Toronto   Sep 2019 – June 2025
Honors Bachelor of Science in Computer Science   *Toronto, ON*
- cGPA: 3.7/4.0, 2020 - 2023 Dean's list
- Courses: Databases (1, 2), Operating Systems, Deep Learning, ML (100%), AI, Blockchains and dApps.

EXPERIENCE

IBM, Data and AI   May 2023 - Jul 2024
Full-Stack Developer - Full Time Intern   *Markham, ON*
- Maintained a HR software that manage **55,000+** headcount monthly using **TypeScript**, **React**, **Node.js**, Express.js, **SQL** (DB2), and Git/Github in an agile environment.
- **Reduced up to 99.7% of time** in the monthly signoff workflow by developing a Mass Signoff feature.
- Achieved a **71% improvement** in the performance of a critical API endpoint through database optimization (query optimization) and concurrent API/database calls.
- Collaborated with **2 Business Units** to migrate to the HR software, performing mass data imports, updating UI and RESTful APIs, and integrating with data dashboards.
- Established and maintained 4 data dashboard groups, training co-workers via tutorials and documentation.

Taq Automotive Intelligence, Credit Driver   May 2022 – Dec 2022
Software Developer (Full-Stack) - Full Time Intern   *Markham, ON*
- Maintained a car lease system that has processed **50,000+** vehicle lease deals using **JavaScript**, **AngularJS**, **C#**, **.NET**, MS SQL Server, JSON, and XML.
- Developed **Unit tests** using JUnit and Specflow, performed tests in multiple environments (local, QA, UAT, Production), using Azure Devops Server for version control.
- Communicated closely with QA, Project Leads, and the DevOps team to fix bugs by stepping through code and reviewing event logs on GoCD pipelines.

University of Toronto, CMS Department   Jan 2022 – Present
Teaching Assistant (Discrete Math, Calculus 1, 2, 4) - Part Time Contract   *Toronto, ON*
- Taught Discrete Math and Calculus to **270** students and designed exams for over **450** students.

PROJECTS

Toy Redis Server | *C, Git, Event Loop, Transactions, Persistence, Streams*
- Developed core Redis-like functionalities, including an Event Loop, custom HashMap, Transactions (MULTI, EXEC, DISCARD), and RDB persistence for durable data storage.
- Implemented Streams functionality (XADD, XRANGE, XREAD) using Radix Tries, optimized for retrieving the latest entries with support for blocking reads, both with and without timeouts.

Last Minute Shop | *React.js, MongoDB, Three.js, StripeAPI, Material-UI, Git*
- Implemented Features: photo upload, camera shots, drag-and-drop, Stripe payments, authentication, and a responsive 3D model with Three.js.

Being Seen App – A Mobile App for the Homeless Youth | *SpringBoot, MongoDB, Android Studio*
- Took ownership of key features on a 7-person team, collaborating closely to ensure project success.
- Implemented Features: JWT token validation, Stripe API integration, Lottie file animations, and designed the app using the MVC model.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, C, C#, Python, Java, C++, Rust, Go
Front-end: React.js, Next.js, AngularJS, Chakra UI, Framer-Motion, HTML5, CSS3, Material UI, Tailwind
Back-end: Node.js, Express.js, .NET, SpringBoot, GraphQL
Database: SQL, DB2, MS SQL Server, Redis, MongoDB, PostgreSQL, Neo4j, Firebase
Data: Pandas, NumPy, Matplotlib, Cognos
Others: Git, Jenkins, JUnit, Karma, Specflow, GoCD, Github Actions, Zenhub, Docker, GDB, UTXO