

AARYA PRAKASH

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EDUCATION

University of Toronto - Honours B.Sc., Computer Science

Sep 2022 - Jun 2026

GPA: 3.77 (Dean's List Scholar)

Relevant Coursework: Data Structures and Algorithms, Operating Systems

EXPERIENCE

Wealthsimple | *Software Development Intern - Toronto, ON*

Sep 2025 - Dec 2025

- Refactored GraphQL APIs to remove a blocker for a customer feature, unblocking 30% of affected users.
- Reduced statement-generation latency by 90% (2s → 200ms) by removing Tailwind from template rendering
- Refined ticket requirements using AI agents, improving clarity and delivery speed

Amazon Web Services | *Software Development Engineer Intern - Vancouver, BC*

May 2025 - Aug 2025

- Built a new version-history feature for CloudFormation stacks, enabling audit trails for stack operations and resource changes, allowing for more insight into stack-level and resource-level operations and reducing the time to diagnosis of errors from 60 to 20 min.
- Implemented and executed a data migration system for 30k+ stacks with idempotent jobs, and retries, enabling customers to use the aforementioned new feature with their current stacks (capable of backfilling 3+TB of data).
- Designed and implemented changes to the console UI for the new version history feature to view details of previous operations on stacks and resources, introduced first-time visibility into prior versions (no prior view existed) and integrated end-to-end with the new APIs.
- Built a root cause analysis capability that emitted structured failure logs and aggregated them into dashboards of the top failure reasons for stack deployments, reducing the number of support tickets cut to the team by 10%.

Scotiabank | *Software Engineer Intern - Toronto, ON*

Jan 2024 - Aug 2024

- Implemented serverless functions (and autonomous tests for these functions) using Python to handle the back-end logic of the internal application, boosting platform reliability by 5–10%.
- Created a feature with Terraform + BigQuery to enable fine-grained data protection and automate user reassignment, replacing a manual ticket workflow for 1,000+ users.

University of Toronto | *Teaching & Research Assistant - Toronto, ON*

Oct 2024 - Mar 2025

- Improved ML classification of image data (using CNNs, GANs and ViTs) on Atacama Cosmology Telescope data to 87% (+9%) for use in the new Simons Observatory

PROJECTS

[GroveReservations](#) (*Go Fiber, Supabase, React*): Replacing paper sign-ups with role-based reservations for a community of 300+ people.

[Open Source Contribution - DuckDB Engine](#) (*Python, SQLAlchemy*): Fixed an unintentional error introduced in SQLAlchemy v2.0.36, implemented an override and added a regression test - merged PR.

TECHNICAL SKILLS

Languages	Python, Go, Java, Kotlin, TypeScript, JavaScript, C, C++, SQL, Ruby, Bash, Haskell
Cloud & DevOps	AWS, GCP, Azure, Terraform, Linux/Unix, Git, Docker, Firebase
Data & ML	PyTorch, TensorFlow, scikit-learn, NumPy, pandas, Jupyter
Databases	PostgreSQL, DynamoDB, MongoDB, BigQuery, Pinecone
Web / Frameworks	Node.js, React, Angular, Express.js, Android Studio