Breno Faria

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EDUCATION

Bachelor of Computer Science (co-op)   **2022 - 2026**
Concordia University, Montreal, QC

Academic exchange - Finance Concentration   **2025 - 2026**
Kyung Hee University, Seoul, South Korea
Recipient of multiple scholarships, including the Global Korea Scholarship

WORK EXPERIENCE

Software Development Engineer Intern @ Amazon   **May 2025 - Aug 2025**
- Designed and implemented a scalable backend powering advanced search filters for a training platform serving 1M+ users and indexing over 100M records
- Architected parent-child indexing in **OpenSearch** and refactored ingestion pipelines (**AWS Lambda**) to support new data models and session metadata with high consistency
- Integrated **GraphQL** APIs with distributed services to enable faceted search, reducing query latency at scale
- Wrote comprehensive unit/integration tests and performance benchmarks to support rollout
- Delivered a robust, low-latency search solution adopted by multiple internal organizations across Amazon

Backend Developer Intern @ Flexspring   **Sep 2024 - Dec 2024**
- Tackled production bugs and implemented features in **Java**-based microservices, using **Jira** for task tracking
- Optimized query efficiency by moving filtering logic to the backend, eliminating ~20,000 unnecessary queries per day, significantly improving page load times, and reducing strain on DB services
- Refactored a large portion of HTTP request handling and legacy code, streamlining API interactions, reducing redundant calls, and improving maintainability and performance

Software Developer Intern @ Federal Highway Police   **May 2023 - Aug 2023**
- Designed and implemented data aggregation tools with **Python** and **PostgreSQL** that were used on a federal scale, increasing case submissions by over 10%
- Developed several automation scripts and browser extensions using **JavaScript**, reducing the time spent on routine tasks by over 50%
- Implemented and integrated new software solutions while assisting departments with technical challenges

PROJECTS & OTHER EXPERIENCE

Math tutor @ Concordia University   **2023/2024**
- Worked in the university's math department, leading classes and organizing exam review sessions (over 1k students)
- Tutored several math courses, such as Linear Algebra, Calculus I, Calculus II, etc.

Director of Technology @ club HackConcordia   **2024**
- Contributed to the backend software development and maintenance of several projects within the club
- Technologies used: **TypeScript, MongoDB, Express JS**

Personal project   **2025**
- Designed and implemented the backend of a learning platform, with **Golang** APIs for video streaming, content metadata storage, user authentication, and progress tracking
- Self-hosted it using **NGINX** as a reverse proxy, containerized services with **Docker**, and managed multi-container deployment via Docker Compose

SKILLS

Programming languages | Java • Python • JavaScript/TypeScript • Go • C • Bash

Infrastructure & DevOps | Docker • NGINX • Google Cloud • AWS (AppSync, Lambda, EC2)

Databases | OpenSearch • PostgreSQL • MySQL • Firebase • MongoDB • DynamoDB

Technologies | Git • GraphQL • Jira • Jenkins • Linux/Unix