

# Rayhaan Farooq

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## Education

**Carleton University** - Honours BSc Computer Science September 2023 - April 2027  
Concentration: AI/ML | CGPA: 3.95/4.00 | Co-op | Third-Year Standing | Minor: Statistics Ottawa, ON

## Technical Skills

**Technologies:** Typescript, Javascript, Golang, Java, Python, Ruby, SQL, C, C++, HTML, CSS, Rust, Haskell, Prolog  
**Frameworks:** React.JS, Node.JS, Next.JS, Tailwind CSS, Firebase, Supabase, Ruby on Rails, PostgreSQL, Kafka  
**Developer Tools:** Docker, Git, Jenkins, QNX, Linux, Stripe, OpenAI, Grafana, GCP, AWS, MongoDB, Kubernetes

## Work Experience

**Fullscript** | *Typescript, React.JS, GraphQL, SQL, Ruby, Python, ElasticSearch* May 2026 – August 2026  
*Software Engineer Intern: Search Engine* Toronto, ON

- Developing and optimizing **search infrastructure** using **Elasticsearch**, improving query performance and relevance for large-scale product datasets through indexing improvements, query tuning, and schema optimization.
- Building internal tools and APIs in **Ruby and Python** to support search indexing pipelines, large-scale data ingestion, and processing workflows, experimentation with ranking strategies and improving reliability of search pipelines.
- Implementing frontend features using **React and TypeScript** for internal search tooling and dashboards, and wrote **SQL** queries to analyze search metrics, monitor query performance, and guide data-driven relevance improvements.

**Shopify** | *Typescript, React.JS, MySQL, Ruby, GraphQL, Bootstrap, GCP* September 2025 – December 2025  
*Software Engineer Intern: Matching Engine* Toronto, ON

- Reduced administrative workload by **10×** by building a full-stack Rails platform that replaced **15+** Excel spreadsheets with automated workflows, dashboards, and centralized data, supporting **300+** interns and **40+** Early Careers staff.
- Improved data accessibility and analytics by designing ERDs, prototyping intuitive interfaces in Figma, and integrating BigQuery to centralize **2,000+** intern records, enabling insights for **75+** managers and **200+** mentors.
- Accelerated intern-to-team allocations by implementing a Gale-Shapley-based matching engine that automated **80%** of assignments, reducing manual allocation time from **4 weeks** to under **10 minutes**.

**Ross Video** | *Python, Typescript, React.JS, SQL, Docker, Jenkins, AWS, Golang* May 2025 – August 2025  
*Software Engineer Intern: AI Tools* Toronto, ON

- Reduced deployment and environment setup time by over **80%** by shipping a full-stack RAG AI chatbot using **React + TypeScript, Express.js**, and **PostgreSQL**, containerized with **Docker** and deployed on a custom **VM**.
- Reduced manual document processing by over **90%** by building an automated **RAG AI pipeline** in **Python** with **Jenkins**, uploading hundreds of document embeddings to **AWS S3** for vector DB ingestion.
- Enhanced access to internal engineering knowledge for **20+** employees by partnering with cross-functional teams to roll out the chatbot across departments, reducing support overhead and cutting onboarding time by up to **50%**.

**Carleton University** | *Java* January 2025 – April 2025  
*Teaching Assistant: Abstract Data Structures & Algorithms* Ottawa, ON

- Led tutorials and office hours for **200+** students on **Java/OOP**, helping improve average exam scores by **20%**.
- Mentored students in **Java** and **algorithms** through code reviews and guidance, performance by up to **25%**.

## Personal Projects

**Forge** (Live Website) | *Python, OpenAI API, Git, React.JS, TypeScript, SQLite, AWS, AST Parsing* January 2026

- Accelerated development cycles by **50%** and cut bugs via AI-powered test generation in **Python**.
- Implemented AST-based incremental tests for untested functions cutting AI token costs by **60-80%**.
- Built a **React + TypeScript** dashboard with **SQLite** tracking, providing fast feedback and clear repository insights.

**Jobber** | *Golang, Cloudflare Workers, Discord API* November 2025

- Built a real-time job alert system detecting new postings in **seconds**, driving rapid applications and more interviews.
- Implemented a serverless **JavaScript** backend on **Cloudflare Workers**, achieving **99.9% uptime**.
- Integrated the **Discord API** to deliver instant alerts, growing a **1000+** **member** community.

## Leadership / Extracurricular

**cuHacking & Hack The Hill** November 2023 – November 2025  
*2x Sponsorship Coordinator* Ottawa, ON

- Raised over **\$110,000** by crafting tailored proposals and managing long-term partner relationships.
- Organized two hackathons with a combined **1400+** attendees, ensuring sponsor satisfaction and seamless execution.
- Optimized workflows in **Notion** and led outreach to **50+** companies, reducing response times by **40%**.