

ALAMGIR KHAN

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Education

University of Toronto

September 2020 – April 2024

Bachelor of Science in Computer Science

Toronto, Ontario

- GPA: 3.49
- Relevant Coursework: Software Design, Data Structures & Algorithms, Software Tools & Systems Programming, Programming on the Web, Introduction to Software Engineering
- Leadership: Technology Leadership Initiative, Blueprint Vice-President, CSSU Director of External Relations

Experience

FinTorch

May 2023 – Present

Co-founder & Frontend Developer

Toronto, Ontario

- Led the overhaul and development of a **Next.js** website using **React**, **TypeScript**, and **Tailwind**, improving mobile accessibility for 50%+ users.
- Engineered secure and user-friendly sign up, log in, and profile pages leveraging **NextAuth.js**, enhancing user accessibility and convenience on the platform.
- Introduced a new feature to allow users to choose from a list of suggested/related questions, resulting in a 40% increase in user engagement.

Amazon

May 2023 – July 2023

Software Development Engineer Intern

Toronto, Ontario

- Spearheaded the design and development of a test suite using the **Python AWS SDK**, **pytest**, **PyMongo**, and **AWS Fargate** to measure downtime caused by DocumentDB engine upgrades across 15 instance classes.
- Implemented an automatic response system through the **Amazon CloudWatch** client to raise alarms and auto-generate crash tickets when the downtime exceeded a predetermined threshold to ensure efficient incident management.
- Enhanced system performance by 1500% through multi-processing and multi-threading functionalities, enabling concurrent measurement of writer and reader downtimes for each instance.

Security Compass

May 2022 – August 2022

Software Engineer Intern

Toronto, Ontario

- Introduced critical enhancements to 2 **Django** API endpoints in response to client requests, leading to recognition in the company's Employee Spotlight of the Month.
- Integrated 3 key **behave** steps in **Python** and 10+ API tests using **Gherkin/Cucumber** to ensure 85%+ code coverage.
- Improved UI/UX of a diagrammatic threat modelling tool using **React** and **Cypress**, contributing to its continued popularity among 80% of the firm's client base.

Navikenz

June 2021 – September 2021

Software Engineer Intern

Cranbury, New Jersey

- Engineered an optimization tool in **Python** for a proprietary solution, reducing computation time from approximately one week to nearly two seconds, backed by unit tests achieving 90% code coverage.
- Led the architecture and development of a RESTful web service using **FastAPI** in an agile team of 5, earning exceptional commendation from the CEO for superior performance and functionality.
- Constructed the UML data model and database schema for the web service and implemented all CRUD operations for the **MongoDB** instance using **PyMongo**, establishing an efficient data management system.

Projects

1Password Terraform Provider 🌐 | Partnership with 1Password

September 2022 – December 2022

- Developed a **Terraform** Provider for the 1Password CLI using **Go** to allow users to reference secrets in their vault.

direcTLy 🌐 | LiquidHacks 3.0

December 2022 – December 2022

- Built a peer-to-peer voice chat app to connect teammates using **HTML**, **CSS**, **JavaScript**, **WebRTC**, **Firebase**, **Vercel**, and **Vite**.

Senso Auto-Finance 🌐 | Partnership with Senso.ai

September 2021 – December 2021

- Designed and hosted an MVP using **Java**, **Spring**, **MySQL**, **HTML**, **CSS**, **React**, and **AWS** to help partnered banks secure 20% more auto loans. Recognized as the most innovative solution amongst 5 other designs by the CTO.

Technical Skills

Languages: Python, Java, JavaScript, TypeScript, Go, HTML, CSS, C, SQL, R, Gherkin

Technologies: Node, React, Next, Django, FastAPI, Spring, MongoDB, MySQL, Cucumber, Cypress

Developer Tools: AWS, Vercel, Terraform, Postman, Git/GitLab, Jira