

ALAMGIR KHAN

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Education

University of Toronto

September 2020 – April 2024

Bachelor of Science in Computer Science

Toronto, Ontario

- GPA: 3.45
- Relevant Coursework: Software Design, Data Structures & Algorithms, Software Tools & Systems Programming, Programming on the Web, Introduction to Software Engineering

Experience

Security Compass

May 2022 – August 2022

Software Engineer Intern

Toronto, Ontario

- Added ordering to 2 **Django** API endpoints per client request. Featured in the Employee Spotlight of the Month.
- Wrote 3 **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 utilized by 80% of clients using **React** and **Cypress**.

Navikenz

June 2021 – September 2021

Software Engineer Intern

Cranbury, New Jersey

- Created an optimization tool for a proprietary solution in **Python** that reduced calculation time from ~1 week to ~2 seconds. Wrote unit tests with 90% code coverage.
- Developed a RESTful web service using **FastAPI** in an agile team of 5. Received high praise from CEO.
- Devised a UML data model and database schema for the web service. Implemented all CRUD operations for the **MongoDB** instance using **PyMongo**.

Projects

1Password Terraform Provider 🌐 | Partnership with 1Password

September 2022 – December 2022

- Implemented 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

- Developed 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.

A* Pathfinder 🌐

March 2021 – April 2021

- Coded a node-based approach of the A* pathfinding algorithm using **Python** and **Pygame**.

Leadership

Technology Leadership Initiative

September 2021 – April 2024

Cohort 4

- 1 of 23 out of ~1000 undergraduate UofT CS students admitted to the program on the basis of grit, curiosity, agility, and academic merit.

UofT Blueprint

April 2022 – April 2023

Vice-President Projects

- Recruit, onboard, and manage 3 development teams in building free and open-source software for social good.

UofT Computer Science Student Union

October 2021 – April 2022

Director of External Relations

- Arranged 6 career-oriented events for 200+ students by developing/maintaining partnerships with industry experts.

Technical Skills

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

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

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