

Hamzah Behery

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EDUCATION

University of Toronto

Honours BSc in Computer Science

Graduated Dec 2024

Toronto, ON

- Data Structures and Algorithms, Software Design, Databases and Systems Programming, Computing in JS/Python
- Awarded: UofT President's Scholars of Excellence (Top 90 Applicants), 2020-24 Dean's List

EXPERIENCE

TriSpects Inc.

Fullstack Software Engineering Intern

Sep 2023 - Jan 2024

Toronto, ON

- Fully developed **15+ page** company website **end-to-end** using **JavaScript/HTML/CSS**, Bootstrap, and CSS asset libraries to ensure a **100% responsive design** and seamless user experience across all devices
- Leveraged **server-side rendering** (SSR) across site to improve SEO and reduce page load times **by 40%**
- Engineered the website's **RESTful API** and backend architecture using **Python Django (Wagtail)**, improving API response times **by 57%** and reducing overhead when fetching data through heavy queries
- Implemented dynamic elements through advanced **JavaScript DOM manipulation** and ensured a seamless experience for **2.6+ million users** by adhering to the WCAG 2.1 accessibility standards
- Designed a **MySQL** database with a tailored schema and custom data structures/components to efficiently organize **100+** website assets, saving the company **\$10,000 annually** by migrating to an in-house server
- Deployed the website to production using **Apache** while managing **version control via Git** to separate production and development branches, ensuring **zero downtime** and stable releases to customers during deployment

SIRTTS Inc.

Software Engineering Intern

May 2023 - Sep 2023

Toronto, ON

- Used **Python Flask** to engineer a **RESTful API** and deploy an application optimizing the appointment setting process for **1.7+ million** customers across Canada, addressing customer needs and stakeholder requirements
- Developed and spearheaded SIRTTS's strategic plan to utilize **AI NLP libraries** in the company's tech-stack (**Python, HTML/CSS, JavaScript**) to enhance data processing and client deliverables as described below
- Implemented two **fine-tuned AI models** to create a **Python-based tool (NumPy, PyTorch)** summarizing **300,000+** corporate chat messages into action items, boosting client workflow efficiency by **200%**
- Led a team of engineers to test a school board web-app under an **AGILE development** workflow, involving creating **150+** tickets and managing bug reports on the **JIRA** platform while integrating customer feedback

PROJECTS

Ridge Tutoring | *JavaScript, HTML, CSS, PHP, SQL*

- Engineered and developed a peer tutoring web-app with **2500+ users** by designing a MySQL database (handling up to **300,000+ requests/day**), **RESTful API**, admin panel, authentication system, and responsive interface
- Managed a team of 3 engineers to continuously develop, maintain, and deploy new versions of the web-app

MAC Reality Quest | *TypeScript, React (+Next.JS), HTML/CSS, SQL*

[GitHub Repo](#)

- Fully developed and deployed a full-stack web application with **130+ concurrent** users at peak operation times, including a **NextAuth** user system utilizing the **JWT authentication** protocol and a **RESTful API** managing up to **5,000+ queries/hour** for facilitating user sign-in and in-game tasks
- Separated server/client **React components** resulting in **50%** faster load times and client side execution, while using **TailwindCSS** along with component library **DaisyUI** to develop user-friendly, responsive design

AegisLock | *Python (PyTorch, NumPy, Tkinter)*

[GitHub Repo](#)

- Used a fine-tuned Microsoft **CodeBERT-base AI model** trained on **650,000+** data entries to recommend ideal passwords to users while securely storing account information and assessing it for vulnerabilities
- Used **Python Tkinter** to provide a seamless, interactive user experience across multiple platforms

TECHNICAL SKILLS

Languages: JavaScript, CSS, HTML5, Python, SQL, Go, Kotlin

Libraries/Frameworks: TypeScript, React, Next.JS, Node.JS, Django, Flask, PyTorch, TailwindCSS

Developer Tools: Git, Docker, Kubernetes, Vercel, Postman, Firebase, Apache, TensorFlow, Jira