

# Shoaib Khan

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## EDUCATION

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### University of Toronto — Honours Bachelor of Science (HBSc)

Nov 2022

*Specialization in Computer Science and Business — GPA: 3.43*

- Emerging Student-Leader Award, Executive member of The Hacklab, Robotics and MSA
- Relevant Courses: Algorithm Design/Analysis, Engineering Scalable Software, Web-Dev, Operating Systems

### Professional Development

- Building Systems with OpenAI API (DeepLearning.AI) Jun 2023
- UI / UX Design Specialization (Coursera) Jul 2022
- Ultimate AWS Certified Cloud Practitioner (Udemy) Feb 2021

## WORK EXPERIENCE

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### Computer Science Teaching Assistant

Jan 2020 – Apr 2022

*University of Toronto*

- Led labs of 50+ students teaching computer circuit design and analysis, architectures, MIPS and RISC-V assembly
- Promoted to head TA in one year, supervising 6 TAs and mentoring 400+ students

### Software Engineer

May 2020 – Aug 2021

*Venngage*

- Streamlined payment flows with Stripe's API and JS/PHP webhooks, reducing weekly support tickets by 11%
- Automated releases using Ansible and AWS (S3, EC2, CloudWatch), freeing 6 engineering hours per week for R&D
- Used Storybook and Redux to optimize front-end development, improve code reusability and state management
- Redesigned the onboarding flow (Storybook, React, Redux, SQL), boosting weekly registration completion by 13%

### Software Engineer

May 2019 – Apr 2020

*Nox*

- Developed a full-stack web app to allow professors to receive feedback on student's understanding in real time
- Efficiently led and onboarded 5 collaborators as Project Manager, boosting team productivity and project pace
- Was scaled and adopted by 5,000 students across the 3 campuses, and endorsed by 5 professors at UofT
- Proficiencies: React, Node.js, Express.js, MongoDB, Apache, Websockets, REST API, Redux, Axios, Figma

## PROJECTS

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### Canadian Codes | *Software Engineer & Project Manager*

Jan 2024 – Present

- Spearheaded development of an innovative AI platform, revolutionizing accessibility to complex building codes
- Led end-to-end software development lifecycle, including design, CI/CD integration, testing
- Key features: fine-tuned chatbot, history, 4k-context, Stripe payments, KV authentication
- Proficiencies: NextJS, Python, FastAPI, TailwindCSS, GitHub Actions, Vercel, RAG, Ollama, Llama 3 LLM

### AIServices | *Software Engineer*

Oct 2023 – Dec 2023

- A lightweight SaaS platform that leverages OpenAI's API to execute tasks using prompt-engineered approaches
- Automated deployment processes by orchestrating CI/CD pipelines using GitHub Actions, enhancing agility
- Key features: anonymous chatbot, pre-set common and unique prompts, chat persistence, chat logs
- Proficiencies: Python, Flask, TailwindCSS, MongoDB, AWS (EC2), GitHub Actions, Nginx, OpenAI API

### Eimr | *Full-Stack Engineer*

Sep 2022 – Sep 2023

- A social media platform that revolutionizes bucket lists by making them interactive, collaborative, and shareable
- Developed end-to-end software, from ideation through design, development, CI/CD integration, to rigorous testing
- Key features: registration auth, email validation, functional likes, comments, following, suggestions, profiles
- Proficiencies: React, Node.js, Express.js, Firebase (Firestore, Auth, Storage, Functions), Lighthouse, Jest

## TECHNICAL SKILLS

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**Languages:** Python, JavaScript, Java, C/C++, SQL (Postgres), TypeScript, PHP, HTML/CSS, Assembly

**Libraries:** NodeJS, NextJS, Express, React, Redux, jQuery, TailwindCSS, Jest, Scikit-Learn, FastAPI, Flask

**Tools:** Docker, Kubernetes, AWS, GCP, Sentry, Ansible, CircleCI, Git, Stripe, Storybook, GitHub Actions, Vercel