

Yousef Bulbulia

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EDUCATION

University of Toronto

Bachelor of Science in Computer Science

Sep 2019 - Aug 2024

EXPERIENCE

Software Developer Intern

May 2022 - Aug 2023

Zensurance

Toronto, ON

- Migrated legacy infrastructure from a monolithic architecture into microservices using **NestJS**, reducing testing time by 87.5%
- Developed an internal frontend application using **React** to display insurance products, allowing brokers to view and understand various insurance options at a glance
- Created CI pipelines for new microservices by writing **GitHub Actions** workflows to automate testing with **Jest** and code coverage analysis with **SonarCloud** on pull requests

Research Assistant

Oct 2023 - Present

The Matter Lab - University of Toronto

- Developing an AI-based framework that automates the creation of data analysis pipelines, enhancing research productivity and eliminating the need for manual coding.

Teaching Assistant - Computer Science

Sep 2022 - Dec 2022

University of Toronto

- Taught key theoretical computer science concepts including runtime analysis and divide and conquer algorithms during weekly classes of 25 students

SKILLS

Languages: JavaScript, Python, TypeScript, Java, C, HTML, CSS

Frameworks and Libraries: React, Node.js, NestJS, Express, Next.js, Jest

Databases: MySQL, MongoDB

Other: GitHub Actions, Git, Postman, Docker, SonarCloud, Papertrail, Jira

PROJECTS

ULinks.io | *React, Express, Node.js, GraphQL*

- Developed a website for students to share group chats, allowing students to connect with each other during COVID-19. **Served 2000+ users.**

Codetierlist | *TypeScript, Node.js, Express, PostgreSQL*

- Developed a website that gamifies the act of writing test cases for computer science assignments, instilling the practice of testing in first-year students. **Served 1000+ users.**

Sign Language Translator | *PyTorch*

- Created a convolutional neural network using **PyTorch** that translates American Sign Language hand symbols into text, allowing non-ASL speakers to understand sign language gestures

PUBLICATIONS

2024 Can Small Language Models with Retrieval-Augmented Generation Replace Large Language Models when Learning Computer Science?

EXTRACURRICULARS

President

Sep 2022 - April 2023

Computer Science Student Community - University of Toronto

- Led divisional teams to organize 20+ events, supporting 1,200+ computer science students' academic and professional growth through mock interviews, info sessions, hackathons, etc