

Jonathan Shanmuganantham

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SKILLS

Programming: Python, C++, Javascript, Typescript, HTML CSS, Java, Object-Oriented Programming

Technologies: React, MongoDB, Express, Node, Next, FastAPI, Manifest V3, Bootstrap, Tailwind

Dev Tools: Git/Github, Google Cloud Platform, Docker, Vite, Figma, Trello

WORK EXPERIENCE

Codin | 

San Francisco, California, United States (Remote)

Full Stack Developer

Sep 2023 – Present, Internship

- Building a website backed by **UC Berkeley** and the **League of Innovators** for students to share their projects, develop portfolios, and find internship opportunities
- Internship database has been used by **1000+** students
- Created **14 React** components and styled them using **Tailwind**
- **Dockerized** and integrated **Node RESTful API** with **30+** endpoints to interact with **MongoDB** database

Toronto District School Board

Scarborough, Ontario

Front End Developer

Mar 2023 – Jun 2023, Freelance

- Appointed by Albert Campbell C.I.'s **Vice Principal** to lead a team of 7 students to redevelop the school's website using **HTML CSS JS**
- Used by **~1200** students to get notified about school events and access essential information
- Received immense positive feedback from students for improvements in **UX**

Robotics Team @ Albert Campbell C.I.

Scarborough, Ontario

Team Captain and Lead Programmer

Sep 2019 – Jun 2023, Extra-curricular


- Designed an **autonomous** multi-terrain Arduino robot using **C++** which won **1st out of 20** teams at **UofT's Provincial Robotics for Space Exploration Competition**
- Designed an **autonomous** wrestling robot using **ultrasonic technology** which won **4th out of 65** teams at **Ontario Tech's Provincial SumoBot Competition**

PROJECTS

friended. |  | 

Next, Typescript, Tailwind, Supabase, PostgreSQL, OpenAI

- Website that creates digital profiles of users from their LinkedIn and Devpost pages and recommends similar users
- Leverages **OpenAI embeddings** to allow for **vector cosine similarity search** using **PostgreSQL**
- Employed **Next** for server-side rendering and used **Supabase** for Google authentication

Clip-kun | 

React, Express, Node, MongoDB, Multer, Cloudinary SDK

- Website that allows users to make clips from shows in the cloud to share with other users.
- Designed **REST API** endpoints using **Express** and **Mongoose** to interface with the **MongoDB** database
- Configured **CRUD** operations with the **Cloudinary SDK** to allow users to manage their **digital media**

Competitive Programming

- Solved **400+** data structures and algorithms problems on Leetcode, HackerRank, and other online judges

AWARDS & ACHIEVEMENTS

Governor General's Academic Medal

Awarded for having the highest academic standing at the secondary school level (**99.2%**)

Distinction At Canadian Computing Competition (Senior Division)

Placed in the **top 10% out of 3000** participants in grade 11 and 12

EDUCATION

University of Waterloo

Waterloo, Ontario

Bachelor of Computer Science