**Aghilan Nathan**

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# TECHNICAL SKILLS

# Languages: TypeScript, JavaScript, Python, Java, SQL

# Frameworks: React, ExpressJS, Flask

# Developer Tools: VSCode, Git and GitHub

# EDUCATION

# The University of British Columbia – Computer Science and Business Vancouver, BC

# *BCom - Bachelor of Computer Science and Commerce (3.90 / 4.33) Graduating Dec 2024*

● Microsoft Azure Fundamentals Certificate (94%), Northwest Hacks 2022

● Introductory Functional Programming, Discrete Math, Object Oriented Programming

# PERSONAL PROJECTS

# [Skyfall](https://github.com/aghilann/Skyfall) - ExpressJS*, React, TypeScript, PostgreSQL, Azure* May 2022 - Present

*Website to upload videos to be emailed to your loved ones in case you pass away*

* Created, tested, and maintained a REST API utilizing Azure while following the MVC design pattern
* Developed a highly interactive multipage UI with a mobile-first approach resulting in 15% increase in mobile users
* Cached returned API data resulting in reduced HTTP requests to the server by 70%
* Reorganized database by de-normalizing schema reducing the latency of read operations by over 50%

# [Personal Finance Dashboard](https://github.com/aghilann/Finance-Tracker) - *React, TypeScript, PostgreSQL, Supabase* Feb – April 2022

# *Website to view your expenses and track stock portfolio performance and diversity*

* Integrated authentication via GitHub and established relationships between User’s and corresponding data tables.
* Identified web-based user interactions and developed highly responsive User Interface via React Concepts
* Reduced original lead-time over 30% by segmenting components and forcing unnecessary re-renders.

# [Split Fare](https://github.com/aghilann/Split-Fare) – *Python, Flask, HTML/CSS, SQLite3* Dec – Jan 2022

# *Blogstyle website where user’s contact user’s going to similar destination to save on travel expenses*

* Implemented pagination resulting in reduced post data sent to client by over 75%
* Added ability to edit both posts and account information, e.g., updating your profile picture and forgot password.
* Deployed on Heroku via a GitHub repository allowing for continuous integration/deployment with each push.

# WORK EXPERIENCE

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| **Aghilan’s Tutoring** | **Vancouver, BC** |
| *Private Tutor* | *Sept 2020 - Present* |

● Worked one-on-one with students seeking assistance in multiple learning areas such as Math, CS and Physics

● Experimented with marketing strategies to eliminate bottlenecks increasing revenue by over 200% over 2 years

● Developed and implemented comprehensive lesson plans that accommodated High School and University students

● Average improvement of 23% per student in Physics, 20% in Math, and 18% in Computer Science respectively

**Interests:** Stoicism, Canadian Personal Finance and Investing, Entrepreneurship