**Aghilan Nathan**

Calgary, AB | [LinkedIn](https://www.linkedin.com/in/aghilan-nathan-3b65bb211/) | [GitHub](https://github.com/aghilann) | 403-400-3726 | [nathanaghilan@gmail.com](mailto:nathanaghilan@gmail.com) | [aghilan.me](https://aghilan.me/)

# TECHNICAL SKILLS

* TypeScript
* React
* Express/NodeJS
* Python
* SQL (Postgres)
* Java
* Flask
* Azure
* Git and GitHub

# EDUCATION

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

# *BCom - Bachelor of Computer Science and Commerce (3.85 / 4.33) Graduating Dec 2024*

● Microsoft Azure Fundamentals Certificate (94%)

● Northwest Hacks 2022

# PERSONAL PROJECTS

# [Skyfall](https://github.com/aghilann/Skyfall) – *Record legacy videos to be sent to your loved ones once you pass* May 2022 - Present

# *ExpressJS, React, TypeScript, PostgreSQL, Azure, Redux*

* 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) – *Track your expenses and investment diversity* Feb – April 2022

# *React, TypeScript, PostgreSQL, Supabase*

* 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
* Utilized multiple external API’s like Yahoo Finance to ensure the latest data while reducing inconsistency by 10%
* Reduced original lead-time over 30% by segmenting components and forcing unnecessary re-renders.

# [Split Fare](https://github.com/aghilann/Split-Fare) – *Save on travel by meeting others with mutual destinations* Dec – Jan 2022

# *Python, Flask, HTML/CSS, SQLite3, Heroku*

* Created CRUD application to connect UBC students going to the same location to split 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, Physics, English

● Established KPI’s used to detect and eliminate bottlenecks increasing revenue by over 200% over 2 years

● Developed and implemented comprehensive lesson plans that accommodated specific learners depending on level

● 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