Isitha Tennakoon

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EDUCATION

Simon Fraser University   **Burnaby, BC**
Bachelor of Science in Computing Science   *2023 – Present*

PROFESSIONAL EXPERIENCE

Coding Pals   *2022–2023*
Lead Instructor and Course Designer

- Designed a 9-week Intermediate Python Course, including homework problems, demos, and projects.
- Lead Teams of 4 instructors for three classes, modifying material to suit teaching styles and class needs.
- Taught Python, HTML, and CSS to classes of up to 30 students between grades 4 and 10.
- Communicated with parents about student development and communicated with Coding Pals executives regarding course performance.

Private Tutor   *2023*
Mathematics Tutor

- Tutored grade 9 and 10 students high school mathematics based on the BC Curriculum.
- Improved student test performance from low 60% grades to mid 80% over the course of a semester.
- Prepared lesson plans, practice problems and learning resources to help develop intuitive understandings of mathematics concepts.
- Communicated with parents to arrange lesson times and provide updates on students' learning.

PROJECTS

Language Learning Web App

Collaborated with a peer to build a GenAI-powered language learning chat app facilitating natural conversations.
Focused on integrating OpenAI API and Firebase for implementing an OAuth login system and database.

Recycling Tracker – Hackathon Project

Worked with teammates to design and build a Recycling Tracker website. Focused on server-side web development in Python using Flask for creating API endpoints and make queries to the PostgreSQL database.

Concrete Strength Prediction in Keras

Trained a regression model to predict the strength characteristics of concrete based on factors like the amount of coarse and fine aggregate, water, cement, etc.
Tested model accuracy through the average and standard deviation of the Mean Squared Error over 50 runs.

SKILLS

- **Python**
- **C++**
- **Pandas and Keras**
- **React**
- **HTML/CSS**
- **JavaScript**
- **MS Office Suite**
- **Linux & Bash**
- **Git & GitHub**