Scott Lai

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Work Experience

Software Developer   *May 2021*
BCIT Nursing Department

- Created a full stack solution to manage the program's courses evaluations in a team of 5
- Implemented REST APIs with Express, Prisma and PostgreSQL (using Typescript)
- Developed report pages with React, Chart.js, and MaterialUI
- Reduced amount of time to filter data for reports by approximately 85%

Team Lead   *January 2021 – May 2021*
BCIT International Student Entry Program

- Led a team of 4 to develop a Node application for staffs to track students' information and progress throughout the program
- Migrated the old Access database to a new MSSQL server using Knex.js
- Implemented REST APIs with Express and authentication system with Passport.js
- Improved user experience and user interface significantly

Projects

LearnIT | Demo   *March 2021*

- Developed a React application to display technologies that are most sought after in the industry in a team of 5
- Winner of the People's Choice award in Hack the Break Hackathon

Sorting Visualizer | Demo   *December 2020*

- Developed a React application that helps students visualize sorting algorithms
- Implemented quick sort, merge sort, bubble sort and selection sort

Pathfinding Visualizer | Demo   *August 2020*

- Developed a Python application to visualize pathfinding and maze generating algorithms
- Implemented Recursive Division and A* Algorithm to generate and solve the maze

Skills

Programming Languages: JavaScript/TypeScript, OCaml, Elixir, Python, Golang, Java, C, C++

Web Frameworks and Databases: Express, Phoenix, React.js, Svelte.js, PostgreSQL, MySQL, MSSQL

Others: Git, Shell scripting, HTML, CSS, Firebase, Agile Development

Education

Computer System Technology – CGPA: 91%   *Class of 2021*
British Columbia Institute of Technology