

Steven Jiao

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WORK EXPERIENCE

Database and Software Intern

Think2Switch (BCI4Kids)

May 2022 – Dec. 2022

Edmonton, AB

- Implemented a server using ExpressJS with API endpoints for servicing user authentication and interfacing database communication between the Think2Switch software.
- Maintained the ReactJS frontend landing page for software installer downloads and documentation.
- Planned and created a passwordless authentication and authorization protocol between the server and client.
- Integrated Azure CosmosDB (NoSQL, document database) storage into the application for user data.
- Worked closely with the hardware team to develop firmware updating through the desktop app via Bluetooth.
- Designed and implemented various UI and functionality enhancements using ElectronJS.
- Performed code reviews for developers and usability testing for end users.

Technology Analyst Student

PCL Construction Inc.

Jan. 2021 – Aug. 2021

Edmonton, AB

- Developed, tested, and deployed ServiceNow solutions and automations following bi-weekly Agile sprints.
- Lead development of a large automation workflow in ServiceNow containing over 100 different tasks including PowerShell scripts running on both on-premises servers and on Azure, as well as ServiceNow scripts.
- Automated business processes using Azure Runbooks and PowerShell integrated with ServiceNow.
- Investigated and rectified automation incidents/tickets for end users.

Petroleum Engineering Intern (MiniAnalysis Software Development)

BitCan Geosciences & Engineering Inc.

May 2020 – Aug. 2020

Calgary, AB

- Developed various functionalities for an inhouse data visualization program called MiniAnalysis using C++ with third party libraries Qt, Qwt, and Boost.
- Refactored the original source code to increase its extensibility and accommodate for newer library features.
- Researched and implemented 10 new function plots for well data manipulation and visualization to determine variables such as formation pressure, permeability, porosity, etc.
- Redesigned MiniAnalysis' UI to better accommodate for new functions.

PROJECTS

Full-stack Rust Connect-4/Toot-Otto

Apr. 2022

- Developed the backend MongoDB integration using Rocket.rs and frontend game winner logic using Yew.rs.

Android Habit Tracking App | [TheHabitController](#)

Nov. 2021

- Lead and planned development of an Android app in Java that is complete with user profiles, following friend features, integration with Firebase for storing user and blob data, and test suites using JUnit and Robotium.

HACK ED Beta Participant | [Syllabus-Reader](#)

Nov. 2019

- Developed an automation script for parsing PDF files (specifically syllabi) in Python using regex for due dates of assignments, quizzes, midterm dates, etc.

EDUCATION

Bachelor of Science in Computer Engineering – Software Option Co-Op

University of Alberta

Class of 2023

Edmonton, AB

- First Class Standing: cumulative GPA of 3.7/4.0.

SKILLS

Programming/Scripting languages: Python, JavaScript, Java, C++, PowerShell, Rust.

Technologies: Azure, CosmosDB, NodeJS, SQLite, Arduino, Git & GitHub, Android Studio (Java).