KYLE RICH

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WORK EXPERIENCE

Amazon   Jun 2022 – Sept 2022
Software Engineer Intern, Vancouver, BC

- Lead a project to develop a VS Code Extension and Language Server to support IEC-61131 PLC languages and remove a proprietary IDE dependency, decrease security risks, and improve development speed for Amazon Control Engineers
- Designed a recursive predictive parser with immediate syntax error recovery achieved by maintaining dynamically populated arrays and leveraging them to determine the best way to continue parsing; provided descriptive error messages to the user
- Leveraged Language Server Protocol and the parser to implement workspace features such as: autocomplete, goto definition, symbol rename, hover information, syntax highlighting, error messages, and see symbol references
- Delivered demos to future users and incorporated feedback, resulting in a successful approval for further project development; prepared effective documentation and followed best development practices to ensure a seamless handoff
- Received exceptional performance evaluations and was acknowledged by management for developing at the level of a full-time staff Software Engineer II by completing 3x more than the initial scope

Technologies: TypeScript, JavaScript, React, Language Server Protocol (LSP), VS Code API

Traction on Demand (acquired by Salesforce)   May 2021 – Dec 2021
Business Solutions Consultant Intern, Vancouver, BC

- Achieved a client retention rate of 100% resulting in the generation of over $100,000 in contract revenue by proactively maintaining communication channels, implementing innovative solutions, and exceeding client expectations
- Reduced lead response time for a client by over 40% through the development of a custom lead routing automation using Apex that routed leads to different salespeople according to zip code and lead scoring metrics
- Organized an all-day team building event with a budget of $10,000 to increase team moral
- Saved team 30 hours per week by deriving, implementing, and maintaining a new daily stand-up structure according to collected feedback and best practices

Technologies: Apex (Salesforce programming language), SOQL (Salesforce Object Query Language), Salesforce Flow

EDUCATION

Computer Science and Business Combined Major, University of British Columbia   Expected Completion: Dec 2023

- 4th year undergraduate student; 92% CGPA across CPSC courses; top 0.5% of his year (3rd / 841 students)
- Key Courses (%, class avg): Algorithms and Data Structures (93%, 82%), Software Construction (99%, 80%), Computations and Programming (98%, 75%), Software Engineering (93%, 86%), Logistics Operations Management (100%, 79%)

TECHNICAL PROJECTS

InsightUBC   Jan 2022 – Mar 2022

- Leveraged the Agile development process to build a RESTful web application in TypeScript to provide students and professors a seamless way to access, summarize, filter, sort, and preform calculations on UBC course data
- Implemented a query engine based on an EBNF and a HTML/JSON parser to return class info via a React webapp

DevSocial   May 2021 – Jul 2021

- Developed a React social media web app with customizable profiles, posting, commenting, and liking functionality
- Built an extensive backend API with Node.js, Express, and MongoDB; tested API with Postman; protected routes and endpoints with JWT; used Redux for app state management and tested with Redux DevTools

COMPETITIONS

Academic Competitor, Deloitte x UBC BizTech, *ThinkTECH 2021,* Vancouver, BC   Nov 2021 – Dec 2021

- Placement: 1st/15 teams
- Directed technical analysis, recommendations, and implementation to help Vancity enter the open banking space, improve competitive positioning, and drive value for members
- Prototyped a fully integrated open banking platform for Vancity members by leveraging the industry standard Plaid API

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, C++, C, CSS, HTML, SQL, SOQL, Apex, R
Frameworks/Libraries: React, Node.js, Redux, Bootstrap, JUnit, Mocha, Chai
Misc: MongoDB (noSQL), PostgreSQL, Agile, REST, Git, Docker, Tableau, Excel