CHRIS TAN

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EDUCATION

University of Waterloo — Waterloo, ON
Candidate for Bachelor of Applied Science - Computer Engineering — Sep 2019 - April 2024
GPA : 3.6+

WORK EXPERIENCE

Scotiabank — Toronto, ON
Software Developer — Jan 2020 - Apr 2020
- Developed a full-stack web application using Java Spring Boot that queries H2 databases for wire transactions, utilising Spring REST/JPA back-end API to connect to React front-end.
- Implemented understand of inversion of control/DI principles by creating an Spring Boot application that ran MySQL queries and parsed result data into .csv files, increasing business analysis productivity by 48%.
- Practiced Model-View-Controller software architecture within Spring Boot applications to enable loose coupling.
- Conducted JUnit tests and acceptance tests using Cucumber testing tool, working with senior developers to maintain ethical code practices.
- Exhibited Scrum best practices by working in an Agile team, participating in daily stand-ups and sprint retros, reviews, etc.

Hunter Dickinson Inc. — Vancouver, BC
Data Analyst Intern — Mar 2019 - Apr 2019
- Employed statistical analysis on geochemical and geophysical data with Excel Power Query and MySQL to display and reveal valuable data within mineral deposits.
- Applied confidence intervals, z-tests and significance-based statistical hypothesis testing on data on mineral data concentrations to perform optimization of sampling techniques.

PROJECTS

Inkansword (WIP) — *React.js, Serverless, AWS Lambda, DynamoDB, API Gateway, Cognito, S3*
- Created a Serverless framework web application that provides functionality and quality-of-life changes for creative writers.
- Leveraged AWS Cognito User/Identity Pools to store unique users, with DynamoDB storing unique story/note objects.
- Maintained REST API microservice-based architecture using Lambda and API Gateway, building CRUD endpoints.

UMigrate — *Javascript, Python, React.js, Django, Ubuntu Linux, PostgreSQL*
- Founded startup group with twelve other students to create a social network for university students on co-op.
- Spearheaded React front-end sub-team development by designing advertisement/post creation, post-liking functionalities, and user list components by consuming and working with custom Python Django API.
- Followed CI/DI practices by introducing beta testing from the student community on a regular basis.

Hardstuck.gg — *Javascript, Node.js, Express.js, HTML/CSS, Bootstrap*
- Developed a Node.js web application that implements a REST API to analyze video game data for any particular player's id as its input.
- Built data parsing algorithms to handle, filter, and modify incoming JSON from Riot Games API endpoints.
- Used Express-handlebars as a view engine to dynamically build result web pages.

SKILLS AND INTERESTS

Languages:	Node.js, JavaScript, Java, C++, Python, MySQL
Frameworks/Technologies:	Git, Github, Bitbucket, React.js, Express.js, Spring Boot, Bootstrap, AWS (Lambda, API Gateway, S3), Serverless, MongoDB
Software:	LaTeX, Microsoft Excel, Sony Vegas Pro
Interests:	Novel Writing, Ski Instructing, Weight Training

AWARDS AND SCORES

Canadian Computing Competition Distinction — University of Waterloo
Recognized for placing in the top 25% of all contestants. — March 2019