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+

PROJECTS

Inkansword (WIP)   *React.js, Serverless, AWS Lambda, DynamoDB, API Gateway, Cognito, S3*

- Creating a Serverless framework web application that provides novel writers with the tools to write novels seemlessly and in-browser.
- Leveraged AWS Cognito User/Identity Pools to store unique users, with DynamoDB storing unique story/note objects.
- Developed REST API microservice-based architecture using Lambda and API Gateway, building CRUD endpoints.

UMigrate   *React.js, Django, Ubuntu Linux, PostgreSQL*

- Developing social media and professional networking/housing application for co-op students with a team of other students.
- Spearheaded front-end subteam development by building React application component skeleton, email verification with session cookies and user creation.
- Designed and implemented advertisement creation and post displays, post-liking functionality, and user list components by working with Python Django API.

Hardstuck.gg   *Javascript, Node.js, Express.js, HTML/CSS, Bootstrap*

- Developed web application that implements a REST API to analyze data from a video game to create a "resume" of the player's statistics.
- Implemented and ran custom-built data parsing algorithms on the Riot Games API to create custom data structures tailored towards each HTTP endpoint.
- Used Express-handlebars as a view engine to build logic to undergo DOM manipulation.

WORK EXPERIENCE

Software Developer Co-op (Global Payments Technology Team)   Toronto, ON
Scotiabank   January 2020 - Present

- Developed an application using Java Spring Boot that queries IBM H2 wire transaction databases and consumes internal APIs, built upon on a React front-end.
- Implemented inversion of control/DI by creating an Spring Boot application that ran MySQL queries and parsed them into .csv files for business parties, increasing business analysis productivity by 48%.
- Developed additional internal endpoints in internal API layer to query wire payments with Spring Controller-Repository-Service design pattern.
- Wrote JUnit tests and acceptance tests using Cucumber testing tool.
- Practiced Scrum best practices by working in an Agile team, participating in daily stand-ups and sprint retros, reviews, etc.

Data Analyst Intern   Vancouver, BC
Hunter Dickinson Inc.   March 2019 - April 2019

- Employing statistical analysis on geochemical and geophysical data to display and reveal valuable data within mineral deposits data working with Excel Power Query/MySQL databases.
- Applying confidence intervals, z-tests and significance-based statistical hypothesis testing on data on mineral data concentrations.

SKILLS AND INTERESTS

Languages:	Node.js, JavaScript, Java, C++, Python, HTML, CSS
Frameworks/Technologies:	Git, Github, Bitbucket, React.js, Express.js, Spring Boot, Bootstrap, AWS (Lambda, API Gateway, S3), Serverless
Software:	LaTeX, Microsoft Excel, Sony Vegas Pro
Interests:	Creative Writing, Trombone/piano Playing, Weight Training, Skiing

AWARDS AND SCORES

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