Derek Wang

https://github.com/Derek-Y-Wang

wang.y.derek@gmail.com
+1-(647)-793-3154

EDUCATION

University of Toronto   Expected June 2023
Honors Bachelor of Science in Computer Science, Statistics and Mathematics

- **Relevant Courses:** Data Structures, Algorithms, Software Design, Machine Learning, Information Security, Software Engineering

SKILLS

Languages: Python, Java, JavaScript, HTML/CSS, C, SQL
Tools/Technologies: AWS, GCP, Flask, Databricks, React.js, Kibana, Periscope Data, Git

WORK EXPERIENCE

The Jonah Group   Sept 2021 - Dec 2021
Software Engineer   Toronto, ON

- Used Python, Flask, and Firebase to develop back-end API infrastructure allowing for scalable scheduling capabilities and booking access features
- Developed functions performing CRUD operations on Google Firestore using JavaScript and integrating data into user interface developed in React.js
- Maintain code compatibility by increasing test coverage by 20% writing unit and integration tests using Mocha unit testing framework

Uken Games   May 2021 - Aug 2021
Data Analyst   Toronto, ON

- Applied hypothesis testing and MannWhitneyU tests to develop a significance model predicting the potential impact of new features or changes applied
- Optimized AWS Redshift schemas with Kibana to reduce SQL query run times by 30%.
- Create interactive dashboards in Periscope Data using Python and SQL to perform exploratory data analysis and benchmark A/B test results for over 50,000 users

PROJECTS

BillTracker | Capstone Project, University of Toronto   [Demo](.) [GitHub](.)
JavaScript, Jira, React.js, MongoDB, Node.js/Express.js

- Designed and developed a full-stack web application to help users track and review bills using the MERN stack. Deployed using Heroku and GitHub pages.
- Adapted Agile methodologies and led a group of six, used Jira for project tracking.

Block Contracts | RU Hacks, Ryerson University   [GitHub](.)
Python, TensorFlow, pyca/cryptography, Tkinter

- Used pyca/cryptography API and natural language processing to evaluate the content and encrypt user data for blockchain storage.
- Developer GUI application with Tkinter library allowing users to create encrypted contracts

GrafJS-Table-Library   [GitHub](.)
JavaScript, Heroku, Node.js/Express.js

- Developed a library that allows users to create dynamic, style-able tables in JavaScript by directly manipulating the DOM's attributes
- Deployed web pages for demonstrations and documentation using Heroku and Node/Express.js