Justin Wang

justinjlwang.com | jjustin.wang@mail.utoronto.ca | linkedin.com/in/JustinJLWang | github.com/claimundefine

EDUCATION

University of Toronto Toronto, ON
B.S. in Computer Science and Statistics *09/2018 – Present*

- **Courses**: Software Engineering, Design and Analysis of Data Structures, Computability and Computational Complexity, Introduction to Machine Learning and Data Mining, Artificial Intelligence

SKILLS

Languages: Java, Python, C, Kotlin, SQL, JavaScript/TypeScript, HTML/CSS
Frameworks: React, Node.js, Flask, RESTful API, NumPy, Express
Tools: Git, SVN, Figma, Docker, MongoDB, PostgreSQL, Neo4j, Heroku

EXPERIENCE

Mobile Developer Intern 09/2021 – 12/2021
CIBC *Toronto, ON*

- Founded development of social finances and messaging integration as a member of CIBC's Innovation Labs
- Pioneered a **first to market** technology involving up to 10 simultaneous transactions with Interac's Group API
- Increased codebase test coverage by 20% via JUnit tests to verify the functionality of crucial classes and utilized Charles to monitor the expected behaviour of server-sided communications

Web Developer Intern 07/2021 – 09/2021
Ministry of Health, Ontario *Toronto, ON*

- Spearheaded refactoring the global database which involved rectifying the data entry and updating inconsistencies, was finished two weeks ahead of schedule upon identification
- Optimized retrieval of medical bodies and their finances from the MongoDB database, reducing runtime by 50%
- Undertook refactoring 20% of the legacy codebase into **TypeScript** to improve future maintainability

Facilitated Studies Group Leader 12/2020 – 04/2021
University of Toronto *Toronto, ON*

- Conducted multiple weekly voluntary study groups and exam seminars with an average of 50+ students per session
- Supervised and provided weekly study notes which caused supervised students to achieve grades 15% higher than non-participating students overall in Introduction to Linear Algebra, Statistics, and Probability courses

PROJECTS

African Innovators | *React, MongoDB, Node.js, Express, Jira*

- Partnered with the **African Impact Challenge** to create an e-learning and community platform for African entrepreneurs, placing as the runner-up out of 30 teams in a course competition consisting of 175 students
- Introduced **Scrum and Agile** with daily standups and weekly retrospectives that resulted in optimized workflow
- Employed Machine Learning to determine similarity between companies and partners for recommendations

Cat and Mouse Maze Traversal | *C, Bash*

- Implemented **Alpha-Beta pruning** to look up to evaluate the strongest of 1500000+ positions in 0.5 seconds
- Applied reinforcement learning to achieve over 70% efficacy against the hardest difficulty cat AIs
- Optimized testing through automated Bash scripts that resulted in the project placing top 4 out of 50 teams

Expense and Budgeting App | *React, Heroku, Firebase*

- Communicated with Firebase to curate user-specific suggestions and rating financial performance out of 100
- Incorporated Regression Analysis to evaluate the efficacy of a user's budgeting compared to over 300 other budgets