Tianhao (Leo) Yao

tianhaoyao.github.io
leoy806@gmail.com | 647.578.6032

EDUCATION

UNIVERSITY OF TORONTO
BASc in Computer Science
Specialist Software Engineering
Stream (Co-op)
Sept 2016 - Dec 2020 | ON
cGPA: 3.1 / 4.0

LINKS

Github:// **tianhaoyao**
LinkedIn:// **leo-yao**

COURSEWORK

UNDERGRADUATE
Artificial Intelligence
Web Programming
Computer/Network Security
Algorithm Design/Analysis
Databases
Engineering Large Software Systems
Data Structures
Software Engineering
Software Design Patterns
UI/UX
Operating Systems
Computer Organization
Statistics
Multi-variable Calculus
Linear Algebra

SKILLS

LANGUAGES
Java • Python • HTML • CSS
JavaScript • Unix/Bash • SQL

FRAMEWORKS
Node • React • Express • MongoDB
Redux • SQLite • Redis • JFrame
JFrame • BootStrap • JUnit
Selenium • Cucumber

TOOLS
Trello • JIRA • ALM • Slack
Git • SVN • Docker • Maven
Herokuapp • Travis CI • Jenkins
Yarn • npm

CURRENTLY LEARNING
C • C++ • C# • Haskell

INTERESTS

AI • Music Production • Game Theory
Art • Video Editing

PROJECTS

TEAM SORTER
Mar 2020 - Present
- React App built using Express, MongoDB, Riot Games API
- Makes API calls directly to Riot Games to acquire various player data
- Calculates player skill based on self-modeled functions for each stat
- Sorts players into balanced teams via algorithm that models CSPs, with player skill and preferred roles as constraints

MATPLOTLIB OPEN SOURCE CONTRIBUTION
Jan 2019 - Apr 2019
- Submitted working PR's to various issues raised by developers, complete with working code and tests
- Implemented the capability to create axis breaks using the Facade Design Pattern
- Organized and communicated workflow using Trello, Slack, GitHub
- Assigned equal workloads to team members, allowing the team to finish each PR at least 3 days before due date

AIRBNB DATABASE
June 2019 - Aug 2019
- Java app built using JFrame and SQLite
- Carefully designed relational schemas to organize property/customer data
- Equipped with many reporting features aimed towards helping business owners and customers identify the solution to their needs, translating desired requests into SQL queries to present the data

JAVA BANKING APP
June 2017 - Aug 2017
- Created a Java app modelling a functional bank with 4 team members
- Capable of login in to different types of accounts, withdrawing/depositing money, applying interest rates, and much more
- Lead the design of how each component of the application would interact and work with one another
- Remodelled, revamped, and reorganized the design to allow scaling

EXPERIENCE

TD CANADA | Quality Assurance
Sept 2019 – Dec 2019 | Toronto, ON
- Planned test maps to maximize efficiency and coverage
- Created test cases using Selenium and Cucumber to automate browser testing
- Engineered new test data used in functional testing for new systems
- Maintained CI pipelines in Jenkins for new deployment of code

CIBC DIGITAL | Senior Quality Assurance Specialist
Jan 2018 - Aug 2018 | Toronto, ON
- Identified malfunctioning marketing pixels (Dynamic Tag Management) and cooperated with the development team to resolve them
- Searched and refined webpage variances on the Dailies Intake and Targeted Offers Team
- Followed agile development practices, utilizing ALM and JIRA