

Tianhao (Leo) Yao

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EDUCATION

University of Toronto

BASc, Specialist Software Engineering Co-op Stream / 3.1 cGPA

Toronto, ON

Sept 2016 - Dec 2020

KEY SKILLS

- **Languages:** Java, Python, HTML, CSS, JavaScript, Unix/Bash, SQL
- **Tools/Frameworks:** AWS, Node, React, Express, MongoDB, Redux, SQLite, Yarn, npm

PROJECTS

League of Legends Team Sorter

Mar 2020 - Present

- **React** web-app built using **Material-UI**, **Node**, **Express**, **MongoDB**, **Riot Games API**
- Divides balanced teams via **CSP modelled algorithm**, using skill/role preferences as constraints
- Intelligently estimates player skill with **80%+** accuracy rate via self-modelled functions
- Significantly reduces team division time by **90 - 95%** (as opposed to manual)
- Achieves **85%+** success rate of forming balanced and competitive matches
- Reduces official Riot-API traffic through **MongoDB/Mongoose** cache
- Deployed using **AWS Amplify**, **Amazon Route 53**, **Heroku**

AirBnB Database

June 2019 - Aug 2019

- App built using **Java**, **JFrame**, **SQLite** in team of 2
- Designed relational schema, following RDBMS guidelines
- Implemented many useful reporting features specifically targeted towards business owners and customers
- Accurately translated **~50** complex metrics into **SQL queries**

Matplotlib Open Source Contribution

Jan 2019 - Apr 2019

- Efficiently resolved open issues over 1-week sprints, complete with working **Python** code and **unit tests**
- Implemented axis breaks feature via **Facade Design Pattern**
- Organized and communicated workflow on **Trello**, **Slack**, **GitHub**
- Carefully divided and distributed workloads to team members, resulting in **every PR** finished at least **3** days before due date

EXPERIENCE

TD Canada

Toronto, ON

Quality Assurance

Sept 2019 - Dec 2019

- Planned logical **test maps** to maximize efficiency and coverage
- Crafted precise tests using **Selenium** and **Cucumber**, mirroring test case instructions
- Creatively engineered new test data for functional testing in new systems
- Maintained **CI/CD** pipelines in **Jenkins**, ensuring no errors occur in production

CIBC

Toronto, CA

Senior Quality Assurance Specialist

Jan 2018 - Aug 2018

- Identified and resolved malfunctioning marketing pixels (Dynamic Tag Management) with development team
- Searched and refined webpage variances on the Dailies Intake and Targeted Offers Team
- Regularly followed agile development practices, utilizing **ALM** and **JIRA** to communicate progress