# Tianhao (Leo) Yao

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? tianhaoyao

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## **EDUCATION**

## University of Toronto

Toronto, ON

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

Sept 2016 - Dec 2020

# **KEY SKILLS**

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

# **PROJECTS**

# League of Legends Team Sorter

Mar 2020 - Present

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

#### AirBnB Database

June 2019 - Aug 2019

- o App built using Java, JFrame, SQLite in team of 2
- o Designed relational schema, following RDBMS guidelines
- o 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

- o Efficiently resolved open issues over 1-week sprints, complete with working Python code and unit tests
- o Implemented axis breaks feature via Facade Design Pattern
- o 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

- Analytically planned test maps to maximize efficiency and coverage
- o Precisely crafted tests using Selenium and Cucumber, mirroring test case instructions
- Creatively engineered new test data for functional testing in new systems
- o Maintained CI/CD pipelines in Jenkins, ensuring no errors occur in production

CIBC
Senior Quality Assurance Specialist

**Toronto, CA** *Jan 2018 - Aug 2018* 

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