Ziyue Yang

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Technical Skills

Programming Python · Java · C++ · SQL · JavaScript · HTML · CSS · Swift
ML & Data R · pandas · TensorFlow · PyTorch · Keras
Web Django · React · Bootstrap
Other Tools Git · Heroku · Android Studio · Xcode

Experience

Bigtheta
Project Lead (Remote) Toronto, ON (May 2020 - June 2020)

- Led upcoming second-year students with a computer science background to create a Django-based project.
- Presented introductory software development tools and design principles (e.g. OOP programming principles).
- Demonstrated fullstack development process: front-end and back-end development; SQLite data querying.

Cohesion
iOS Developer Intern Guangzhou, Guangdong, China (Summer 2018)

- Contributed to the Swift development of Cohesion's iOS app, an office reservation tool.
- Implemented React Native-based front-end features for mobile.
- Front-end testing with the Jest framework.

Projects

UniMart *https://github.com/yangzi33/unimart*

A Django-based web market providing students a platform to trade items online.

- Implemented models, views, and templates to allow user registration, account profiling, and item listing.
- Styled front-end templates using Bootstrap and React.
- Queried application data with SQLite.

Agenda *https://github.com/yangzi33/agenda*

Android calendar app written in Java. Agenda allows users to create calendar events with reminders.

- Integrated features to Android GUI with based on open-source APIs.
- Created features that allow users to add, modify, and create repeating events with specific frequencies.
- Implemented relational databases in SQLite to query app data with for multiple users.

3D Navigator *https://github.com/yangzi33/ConsoleFPV*

Dynamic first-person 3D navigator written in C++.

- Rendered in command line using a ray casting algorithm mapping from 2D space to 3D.

Education

University of Toronto *2018 - 2022*
Toronto, ON, Canada

- Honours Bachelor of Science, GPA: 3.78/4.00 in CS courses
- Statistics, Computer Science, Mathematics
- Coursework: (Accelerated) Data Structures and Analysis, (Accelerated) Theory of Computation, Software Design, System Programming, Bayesian Statistics, Multivariable Calculus, Real Analysis.

Personal Interests

Extracurricular Courseworks

- CS231n by Stanford University: ConvNet course which I have been following along. I am working on building deep neural network-based tumor segmentation models as the final project of this course.
- CS122a by UCI: Course on relational databases, though I will be taking a similar course in the upcoming fall. Starting early seemed like a better option for me, due to the knowledge requirements for projects and hackathons.

Miscellaneous

- Formula One · Kaggle · Snowboarding · Project Euler · 3Blue1Brown · Reading