

ZIYUE YANG

STUDENT NUMBER. 1004804759

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TECHNICAL SKILLS

Programming Python, Java, C++, JavaScript, SQLite, Swift, Ruby, XML
ML/Data Jupyter Notebook, AWS, R, PyTorch, OpenCV, Keras
Web Django, Rails, React
Mobile Dev Android Studio, Xcode

PROJECTS

- Deep Neural Networks for Tumor Segmentation** (June 2020 - September 2020 (Expected))
- Head and neck tumor segmentation model based on CNN. The project will be trained on the *HECKTOR Challenge* training data sets of *MICCAI 2020*. The datasets are planned to be released on June 10th, 2020.
- Console FPV Navigator** (June 2020)
- A command-line based first-person 3D navigator, written in C++.
 - Used a ray casting algorithm to map from 2D space to 3D for rendering.
 - Inspired by the engine of game *Wolfenstein 3D*.
- UniMart** (May 2020 - June 2020)
- Implemented user models, item views, and trade models in Django to allow C2C trading.
 - Styled front-end templates with the Bootstrap framework.
 - Stored and managed data with PostgreSQL.
 - Deployed application using Heroku.
- Agenda** (April 2020)
- Integrated Android GUI with various features (e.g. auto-filling while searching calendar events by name).
 - Implemented features that allow users to modify repeating events, as well as operations on user-selected events.
 - Queried app data using SQLite.

EXPERIENCE

Bigtheta

- Project Leader (Remote) Toronto, ON (May 2020 - Present)
- Leads a team of entry-level student programmers to create Django-based project.
 - Introduces software development tools and principles (e.g. git, UML, SOLID) in a lecture-like style.
 - Demonstrates front-end and back-end developing, with some use of database.

Cohesion

- iOS Developer, Internship Guangzhou, Guangdong, China (Summer 2018)
- Contributed to the Swift development of Cohesion App, an iOS office reservation tool.
 - Implemented web features using JavaScript.
 - Front-end testing with various browsers.

EDUCATION

- University of Toronto** Toronto, ON (2018-2022 (Expected))
- Honours Bachelor of Science
 - Statistics Major, Minor in Computer Science and Mathematics

SELECTED CURRICULA

Computer Science

Software Design, Data Structures, Convolutional Neural Networks, UNIX Programming, Theory of Computation.

Mathematics and Statistics

Linear Algebra, Real Analysis, Multivariable Calculus, Probability.