Yitong Tang

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EDUCATION

University of British Columbia   Vancouver, BC
Bachelor of Engineering - Computer Engineering;
Minor in Honor Mathematics   *Sept 2020 - May 2024*

- **Courses:** Algorithms, Operating Systems, Machine Learning, Deep Learning, Database Design, Big Data Analytics, Computer Networks

SKILLS SUMMARY

Languages: Python, Java, SQL, C/C++/C#, HTML/CSS, Javascript, PHP, Verilog, Arm/X86
Frameworks: React, Nginx, Scikit, Numpy
Tools: Git, Linux, Matlab, NodeJS, Android Studio, Unity, PyTorch, Tensorflow, Regex
Databases: MySQL, SQLite, MongoDB

PROJECTS

Smart Scale - **physical scale with smart features**: help customers to self-checkout in the supermarket by machine learning and self-recognizing the item types, displaying price with weight and calories. Implemented physical features, web frontend and backend, and machine learning. Tech: raspberry-pi, html/css, javascript, Nginx, tensorflow. (Apr. 21)

Second-hand trading platform – **a group project, an android app for second-hand trading:** help students to resell unused items. Planned the project by designing a database and sequence diagram. Implemented frontend and bind api and google service. Tech: Java on android, MongoDB, Google Service. (Aug. 22)

SimpleDB - **class project for Database Systems Design**: a system to retrieve information on food delivery platforms, including restaurants, users, promotions, etc. Implemented a core SQLite database and a user-friendly frontend for a food delivery app. Tech: PHP, SQLite. (Nov. 22)

Group Chat - **a webapp for students to chat in their own interested group (like discord)**: a platform for users to join or create interest-based groups and chat. Implemented a web frontend and backend and used sockets for real-time updates. Tech: Javascript, NodeJS, MongoDB, HTML/CSS. (Dec. 22)

Dancing Robot – **a group project for an entertaining robot:** a robot that can dance and play dual-track music via keyboard and an LCD screen. Implemented high-level motor control and designed the human-computer interface on the LCD screen. Tech: Mu Py, Soldering, Movement Encoding. (Feb. 2022)

HONORS AND AWARDS

- Top 5% worldwide in American Mathematics Contest 12 – Feb, 2019
- 8 points in American Invitational Mathematics Examination – March, 2019
- Sixth place in Eastern China in American Regional Mathematics Competition as a group leader – Apr, 2019
- Outstanding International Student Award – Sept. 2020

VOLUNTEER EXPERIENCE

Volunteer at Autistic Family Support Group   China
Guide and Guard autistic children with knowledge from AP Psychology.   *Dec. 2018 - May. 2020*

Hold a Speech in Ningbo New Library   China
Present and explain SEIR virus model to public, helping people know covid.   *Feb. 2020*

Orientation Leader   Canada
Guide new coming students for lives in UBC   *Sept. 2022*