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 physicsal 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 which helps students to resell unused items:** Planed the project by designing 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**: Implemented core database and a 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)**: Developed web frontend and backend. Implemented sockets for real update. Tech: Javascript, NodeJS, MongoDB, HTML/CSS. (Dec. 22)

- **Dancing Robot – a group project for an entertaining robot:** Robot can be controlled to dance, play dual track music by a keyboard and lcd screen: Implement a high-level control on motors and design 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*