

philbertlou.github.io

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EDUCATION

BACHELOR OF SOFTWARE ENGINEERING

University of Waterloo, Waterloo, ON | 2020 - 2025

• 3.9 GPA | 91% Cumulative Average

SKILLS

Languages: Python, Java, HTML, CSS, Javascript, C, C#

Technologies: Git, Bootstrap, MongoDB, Express.js, React.js, Node.js, Django, TensorFlow, SQLite

PROJECTS

CLOTHING FORECAST

github.com/PhilbertLou/ClothingForecast

- Engineered a neural network using **TensorFlow** libraries that predicts what a user should wear given local weather conditions and temperature
- Created 6937 rows of data to initially train the network using the supervised learning approach and continuously updated it with user data, resulting in more personalized clothing predictions over time
- Developed the backend using <u>Django</u> framework, coded in <u>Python</u>, and constructed a responsive frontend website utilizing <u>HTML</u>, <u>CSS</u>, <u>Javascript</u>, and <u>Bootstrap</u>

ESSENTIAL

github.com/PhilbertLou/Essential

- Created a secure, health-centric <u>RESTful API</u> using <u>Node</u> and <u>Express</u> for users to continuously track their water and sugar intake, set goals and restrictions, and build healthy habits
- Utilized <u>Passport.js</u> and <u>bcrypt</u> to authenticate users and to encrypt passwords stored in <u>MongoDB</u>
- Constructed a responsive and user-friendly client interface using <u>Bootstrap</u> and dynamically rendered web components using <u>React</u>, providing users with their latest data at all times

CRYPTOPI

github.com/ZhouJas/SE101-CryptoPi

- Collaborated to design a web and mobile application with a **Node**, **Express**, **MongoDB** backend that allows users to quickly and conveniently send secure Ethereum transactions via NFC technology
- Sent user details, which are stored in NFC tags and readers, from a **Raspberry Pi** to the backend
- Authenticated users and payments using <u>Microsoft Azure Face API</u>

DODGE

philbertlou.github.io/dodge

- Published a mobile arcade game on the Google Play Store where users try to avoid moving knives
- Developed the application using <u>Unity Game Engine</u>, coded in <u>C#</u>, and designed custom assets

WORK EXPERIENCE

TEACHING ASSISTANT

Kumon, Oakville, ON | April 2018 - March 2019

- Privately tutored students English and math material, leading to significant grade improvement
- Administered Kumon employee training through live tutorials and ongoing supervision