

# DAVID HUANG

## EDUCATION

### Western Governors University

Bachelor of Science – Computer Science – December 2023

Certifications – CompTIA Project+, ITIL 4

## SKILLS & TOOLS

**Languages** – Python, Java, C++, SQL, FXML, AIML, HTML, CSS, JavaScript, ExtendScript

**Database** – MySQL, PostgreSQL

**Tools** – MySQL Workbench, pgAdmin, PyTorch, Scene Builder, Google Colab, RepairQ

## PROJECTS

### Image Classifier (Python)

- A PyTorch web app that identifies images. The images are classified into different categories of an image dataset. For this implementation, the EfficientNet convolutional neural network is trained on the CIFAR-10 dataset. Metrics are generated to evaluate accuracy.

### Scheduling Application (Java, FXML, SQL)

- A JavaFX application that manages appointments, customers, and generates reports. The data is pulled from a MySQL database using the Java Database Connectivity API. Dates and times are adjusted based on the location of the user.

### Postal Routing Application (Python)

- A program that simulates efficient and on time delivery of mail packages using an algorithm. Tracking information for trucks and packages can be displayed at any point in time. A custom hash table is implemented as an exercise to explore data structures.

See Additional Projects at [davidhuang.dev](https://davidhuang.dev)

## EXPERIENCE

### CPR Cell Phone Repair Mt Juliet (2017-2022) – General Manager/Owner

- Responsible for all store operations such as opening and closing, scheduling shifts, and ordering inventory
- Create a positive work environment for technicians to efficiently handle repair workload
- Maintain 4.8 Google Maps rating with over 500 reviews by providing excellent customer service
- Negotiate B2B sales with Smith County Board of Education for Chromebook computer repairs
- Hire and train technicians in all repairs and store responsibilities
- WISE Level 2 certified technician – repaired thousands of smartphones, tablets, computers, and drones
- Perform through-hole and surface mount micro soldering

### Meharry Medical College Office of Institutional Research (2016-2017) – Intern

- Utilized Winsteps software to run Rasch analysis on student survey questionnaires
- Learned how to run various statistical analyses on platforms such as R statistical package and Facets
- Helped professor write and critique research papers regarding the Rasch model

### GuruSkins (2015-2016) – Technology Consultant

- Built computer server linked to Box cloud storage for Adobe Photoshop image processing
- Negotiated contract with a third party for software development
- Developed Adobe ExtendScript scripts to use Photoshop actions for automation
- Organized and managed network file structures for data storage and access

### Vanderbilt University Institute for Software Integrated Systems (2014) – Intern

- Modeled and evaluated cyber physical systems for development of Google ARA modules
- Practiced strict time management to complete a major project and prepare a presentation for Google and city officials in a short timeframe
- Learned Python programming language to use single-board microcontrollers (Arduino and Raspberry Pi) to pull data from digital and analog sensors