

# DAVID HUANG

## EDUCATION

**Bachelor of Computer Science**  
Certifications – Project+, ITIL 4

**Western Governors University**  
Salt Lake City, Utah

**December 2023**

## EXPERIENCE

**Software Engineer for AI Training Data**

**G2i**

**June 2024 – Present**

- Evaluate the quality of AI-generated Python code based on the criteria of functionality, efficiency, readability, consistency, and testability
- Provide detailed summaries of evaluations and suggestions to improve code generated by LLMs
- Write maintainable Python code and test cases to solve problems efficiently and verify program output

**General Manager/Owner**

**CPR Cell Phone Repair Mt Juliet**

**Nov 2017 – Nov 2022**

- Created a positive work environment for a team of technicians to effectively handle repair workload resulting in a sub 1 hour turnaround time for almost all repairs
- Maintained a 4.8 Google Maps rating with over 500 reviews by providing excellent customer service
- Negotiated B2B sales with Smith County Board of Education leading to hundreds of additional repairs
- WISE Level 2 technician – resolved thousands of issues with smartphones, tablets, computers, and drones

**Research Intern**

**Office of Institutional Research, Meharry Medical College**

**May 2016 – May 2017**

- Learned R to conduct propensity score matching using the MatchIt package to identify obesity risk factors
- Edited and proofread "Using Propensity Score Matching Method to Study Adult Obesity in the United States," APHA 2016 Annual Meeting & Expo, 2016
- Explored Rasch analysis utilizing Winsteps and Facets to improve the precision of student survey questions

**Technology Consultant**

**GuruSkins**

**Aug 2015 – May 2016**

- Addressed business needs with technical solutions at a Boyd Venture Challenge winning startup
- Implemented a solution to fully automate processing of customer uploaded artwork for large format vinyl printing using Adobe Photoshop and ExtendScript Toolkit
- Built a Windows server to manage digital assets with a file structure for efficient data storage and retrieval

**Intern**

**Institute for Software Integrated Systems, Vanderbilt University**

**May 2014 – Aug 2014**

- Designed and built a bike computer following the modular design principle of Google Project ARA
- Exercised Kanban time management to complete a major project and prepare a presentation for Google and city officials in a two-month timeframe
- Learned Python to implement a cyber-physical system using various sensors, Arduino, and Raspberry Pi

## PROJECTS

**Image Classifier – Python** 

- Developed a Python web app using PyTorch machine learning library that trains a CNN to identify images
- Utilized torchvision to transform images in the CIFAR-10 dataset for training the EfficientNet-B0 CNN
- Used Matplotlib, NumPy, and TorchMetrics to produce learning curves, confusion matrix, and image results

**Scheduling Application – Java, FXML, SQL** 

- Developed a Java application using JavaFX that manages appointments, customers, and generates reports
- Performed CRUD operations on a MySQL database with the Java Database Connectivity API
- Used Scene Builder to create a user-friendly interface that displays data dependent on the user's location

**Postal Routing Application – Python** 

- Developed a Python program that simulates on-time delivery of mail packages with tracking features
- Implemented the nearest neighbor algorithm to heuristically generate efficient routes for mail trucks
- Created a hash map from scratch to learn about dictionaries and hash functions

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

## SKILLS & TOOLS

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

**Database and Tools** – MySQL, PostgreSQL, MySQL Workbench, pgAdmin, PyTorch, Scene Builder, MatchIt, RepairQ