

# Jimmy Ding

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## EDUCATION

### UT AUSTIN

#### BS IN COMPUTER SCIENCE

Expected May 2024 | Austin, TX  
Cum. GPA: 3.98

## LINKS

Github:// [DimmyJing](#)

LinkedIn:// [JimmyGuDing](#)

## COURSEWORK

### UNDERGRADUATE

CS314 Data Structures  
CS311 Discrete Math  
CS429 Computer Architecture  
CS104C Competitive Programming  
M408D Multivariable Calculus  
M340L Matrices/Matrix Calculations  
SDS321 Intro to Probability/Statistics  
CS376 Computer Vision  
CS378 Safe and Ethical AI  
CS439 Principles of Computer Systems  
CS331 Algorithms and Complexity  
CS361S Network Security/Privacy  
CS373 Software Engineering  
CS371p Object Oriented Programming  
CS363m Principles of Machine Learning

### TEACHING ASSISTANT

CS378 Ethical Hacking

## TECHNICAL SKILLS

### PROGRAMMING LANGUAGES

Python • C++ • Typescript • JavaScript •  
Java • C • Go • SQL • Bash • Elixir

### TECHNOLOGIES

TensorFlow 2 • PyTorch • Django • Git •  
Docker • Kubernetes • React • React  
Native • Redux • MaterialUI • TailWind  
CSS • Apollo • Gatsby • FastAPI • SQLite  
• Node • Guice • EC2 • S3 •  
Elasticsearch • Next.js

## ACTIVITIES

- Association of Computer Machinery (ACM)
- Information and Systems Security Society (ISSS)
- UT Programming Contest (UTPC)
- UT HASH team for CCDC and CPTC

## EXPERIENCE

### AMAZON | SOFTWARE DEV ENGINEER INTERN

May 2022 – August 2022 | Austin

- Wrote production level code to create services that influenced 15,000 customers in Amazon Business.
- Worked with data engineers to integrate machine learning models with existing services.
- Utilized internal Amazon tools to create visualizations and metrics to monitor service status.

### APEX ENGINEERS | SOFTWARE DEV INTERN

October 2021 – May 2022 | Remote

- Designed python scripts to automate menial tasks in structural design.
- Sped up calculation for load bearing walls from an hour to less than a second.
- Used WebView2 to create user-friendly interfaces with React and FastAPI.

### ZYKIE NETWORKS | BACKEND DEVELOPER

May 2021 – August 2021 | Remote

- Created a graph-based database that enhances performance for querying.
- Programmed in C++ to write high performance concurrent code that involves lockless data structures.
- Optimized query time for production environment from 900 seconds to less than a second, securing a contract.

## PROJECTS

### GREEN SCREEN | DEVELOPER

October 2021 | Richardson, TX

- Engineered a recurrent neural network time series predictor using Keras to predict future company ESG scores
- Created custom made web scraper to generate a dataset used to train the RNN
- Designed front-end interface with React in which users can import their stock portfolio and track their own weighted real-time ESG score based off the distribution of their investments

### FANNIE DISPLAE | DEVELOPER

February 2020 – March 2020 | Dallas, TX

- Used Pandas, NumPy, and Google Collaboratory to create models to predict housing market loan performance based on Fannie Mae datasets
- Integrated the ERSI API to visualize and map areas with high risk mortgage default rates across the United States for low income residents

## AWARDS

2022	3rd Place	HackDFW Google Challenge
2022	4th Place	National Collegiate Cyber Defense Competition
2022	1st Place	Optiver Roden Puzzles Competition
2021	10th Place	South Central USA ICPC Contest
2020	2nd Place	HackTX General Challenge
2020	2nd Place	Open Data Hackathon General Challenge
2019	Gold	United States of America Computing Olympiad