Zhuo (Danny) Chen

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EDUCATION

Carnegie Mellon University Silicon Valley
M.S. in Software Engineering
Aug. 2023 - Dec. 2024
Mountain View, CA

Texas A&M University
B.S. in Computer Science
Minor in Economics
Aug. 2020 - May 2023
College Station, TX
GPA: 4.0/4.0

COURSEWORK

Graduate
Machine Learning

Undergraduate
Data Structures & Algorithms
Competitive Programming (TA)
Artificial Intelligence
Networking
Database Systems
Computer Systems
Blockchains
Linear Algebra
Probability & Statistics
Multivariable Calculus

SKILLS

Languages
Python, C++, Java, JavaScript, Solidity, Haskell, SQL, LaTeX

Frameworks
Mongo/Express/React/Node, Numpy, Pandas, PyTorch, Scikit-learn, Spark, Flask

Tools
Git, AWS, Heroku, GCP, Docker, CI/CD, Excel, Vim

Soft Skills
Bilingual Communication (English, Chinese), problem-solving

INTERESTS

Artificial Intelligence
Blockchains
Software Development
Competitive Programming
Financial Markets

EXPERIENCE

BRL-CAD | Software Engineer
Feb. 2023 - May. 2023 | College Station, TX
- Developed an automation tool for generating one-page reports from CAD files, saving "hours" of time for developers to share model data. Contributed to the open source BRL-CAD ecosystem **(C++)**
- Won **3rd/52** teams and **$500** at the TAMU CS Dept. Capstone Expo

Texas A&M Competitive Programming | Teaching Assistant
Jan. 2023 - May 2023 | College Station, TX
- TA for CSCE430 (Competitive Programming) under Dr. John Keyser
- Held weekly office hours, debugging sessions **(Python, C++)**, and led discussions; quoted as "**best TA**" by many students

Capital One | Software Engineer Intern
June 2022 - Aug. 2022 | Plano, TX
- Developed **machine learning** algorithms such as decision trees to identify hot leads out of **150K+** leads generated monthly **(Python)**
- Performed feature extraction using information gain and tuned model with cross validation to increase successful sales by **20%**
- Architected serverless backend and created REST API endpoints **(AWS Lambda, SQL, Flask, Pandas, Jenkins)**

Aggie Coding Club | Software Developer + Leader
Sept. 2020 – Dec. 2020 | College Station, TX
- Built a web app to automate class searching and to notify students when filled courses are available during class registration
- Delegated tasks to 17 members; designed frontend, backend, and database schema **(MongoDB, React, Node, Python, JavaScript)**

PROJECTS

NFT RevPass
Jan. 2023 - April. 2023
- Worked with a cross-functional team of 5 developers to build an ERC4907 NFT implementation of Texas A&M's sports pass
- Created an NFT marketplace smart contract for sports pass trading and renting between students and staff **(Solidity, Hardhat)**
- Designed a robust backend system utilizing unique NFT metadata architecture to ensure fair and efficient ticket pull compatibility

Speech Expression
Mar. 2022 - May 2022
- Worked with an **agile** team of 3 in developing an application to help users practice public speaking with real-time feedback **(React)**
- Created a minimal viable product (MVP) in 2 weeks and was recognized as the **best** project out of 45 teams **(JavaScript)**

AWARDS

Top 8%	Facebook Hackerrcup Round 2 Qualifier	2021, 2022
12th/52	ICPC Bronze Medal South Central USA	2022
8th/80	TAMU Fall Contest, Sponsored by Citadel	2020
1st	Capsher Coding Challenge (Discord Bot)	2020