

Jack Zhang

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EDUCATION

Vanderbilt University

Nashville, TN

B.S. in Computer Science, Economics

May 2024

GPA: 3.74/4.00

Relevant Coursework: Machine Learning, Deep Learning, Artificial Intelligence, Software Engineering, Algorithms, Data Structures, Operating Systems, Database Systems, Multivariable Calculus, Linear Algebra, Probability and Statistics

TECHNICAL SKILLS

Programming Languages: C++, Java, Python, JavaScript, SQL, Typescript, HTML, CSS, PHP

Technologies: AWS (S3, SQS, ECS, Fargate, CloudWatch), React, Django, Git, PostgreSQL, Docker, Gradle

PROFESSIONAL EXPERIENCE

Amazon

New York, NY

Software Development Engineering Intern

May 2023 – August 2023

- Delivered a cloud-based service with over 99.9% availability and low-latency in ECS-Fargate for Supply Chain Optimization Technologies (SCOT) using Java, Typescript, and AWS tools: S3, SQS
- Streamlined direct processing of data from finance team to production, eliminating the need for SDEs to handle the data and bypassing the full-day service deployment; resulted in 7 figure monetary impact
- Automated ingestion, transformation, and storage of Excel files to enhance error-handling robustness, debugging 4 critical issues in the labor cost data flow; implemented unit tests with JUnit and Mockito

Iron Galaxy Studios

Nashville, TN

Software Engineering Intern

May 2022 – August 2022

- Converted compatibility of *Crash Bandicoot 4: It's About Time* from Battle.net's infrastructure to Steam's online subsystems utilizing C++ and UE4 with P4V for version control
- Conducted comprehensive code analysis, identifying, testing, and resolving over 120 crucial errors and bugs for both *Rumbleverse* and *Crash Bandicoot 4: It's About Time*, ensuring a smooth launch for both games
- Spearheaded communication with a team of interns to propose and develop a parkour game in UE4 and C++

Private Tutor

Remote

Self-Employed

March 2020 – Present

- Tutored over 12 students ranging from 4th to 12th grade in math, computer science, and science
- Tailored detailed lesson plans to students' needs and coordinated with parents to develop consistent schedules

PROJECTS

VandyPool Web App

November 2023

- Engineered a full-stack rideshare and carpool web application for students to save money on rides
- Developed a React user interface and API endpoints with Django REST framework and PostgreSQL database
- Integrated Jest for unit testing with Docker containerization; CI/CD deployment on Heroku and Vercel

Personal Portfolio

October 2023

- Showcasing portfolio of experience and interests in JavaScript and HTML/CSS with Vercel deployment

Amazon Mock Website

December 2022

- Engineered a mock website of Amazon with a functional back-end database using PHP, CSS, and SQL

ACTIVITIES, AWARDS & INTERESTS

Activities: Vanderbilt Poker Association (Co-Founder), Swim Club, Table Tennis Club, Blockchain Club

Awards: Dean's List, Intercollegiate Poker Association 2nd Place, NISCA All America Swimming, National AP Scholar

Interests: Swimming, Chess, Table Tennis, Tutoring Children, Texas Hold'em, Lifting, Trying New Cuisines