Adelaide Zhang

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Oct 2019

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EDUCATION

Dec 2022 Master's in Computer Science

New York University, Tandon School of Engineering (GPA: 3.9)

Selected Coursework: Software Engineering, Algorithms & Data Structures, Databases, Operating Systems, Computer Graphics, Computer Vision, Machine Learning, Mechatronics

May 2017 Bachelor's of Fine Arts in Theater (Sound Design/Engineering)

Carnegie Mellon University, College of Fine Arts

SELECTED PROFESSIONAL EXPERIENCE

Oct 2022 - Research Assistant, NYU Music & Audio Research Laboratory / New York, NY

June 2023 Led data collection for a pilot study regarding subway noise levels, covering 30 NYC subway stations

- Collected audio level data and real-time annotations, and incorporated metadata, resulting in a comprehensive dataset of 32K observations
- Utilized **Python** and **R** to perform statistical analyses and determine patterns of loudness

Sept 2017 - **Software Engineer**, The Santa Fe Opera / Santa Fe, NM

Developed and maintained software for Electronic Libretto System, enabling simultaneous display of translated opera titles on ~2300 networked single-board computers

- Created Linux application using C++ and Qt for database editing and real-time performance control
- · Created user-friendly patron interface, cross-compiled for Raspberry Pi based hardware
- · Wrote Bash scripts to query units, start remote processes, and perform functionality tests
- Documented progress during the development process and wrote user guide for future operators

PROJECTS & OTHER WORK -

Budget Tracking App, personal project

- Used Next.js and TypeScript to create a budget tracking web-application, allowing users to add expenses, create budgets, and view spending trends and meta-statistics
- Created user interfaces with Tailwind CSS and synced user data using Google Firebase

Section Leader - Code in Place, Stanford University

- · Volunteered to lead a weekly session as part of a global intro to programming course in Python
- Taught coding basics and led practice problems with a class of 15

Shortlist, NYU Software Engineering Term Project

- Collaborated to create a web app (**Django** and **Vue**) to help incoming high school students find suitable NYC public schools using NYC OpenData statistics, hosted with **AWS**
- Implemented testing with Django and Vitest, and CICD with Github Actions

Stellar Classification, NYU Machine Learning Term Project

- Classified visible night sky bodies as stars, quasars, or galaxies using SDSS observational data
- Implemented Machine Learning techniques (KNN, random forest, and AdaBoost) in R

Vaccination Scheduling App, NYU Databases Term Project

- Developed match-making algorithm to schedule patients and providers using their availabilities, locations, and preferences while prioritizing higher-risk patients, backed in a MySQL database
- Used Express and EJS to create lightweight web portal for users to submit info and track appointments

SKILLS & CERTIFICATIONS

Languages: Python, JavaScript, TypeScript, Bash, C++, R, SQL

Tools/Frameworks: Git, Qt, Linux, React, Next.js, Vue, Firebase, Agile (Scrum)

Certifications: Codepath Certificate in Cybersecurity (Spring 2022)