Eason(BingXian) Xie

linkedin | (857)-272-9958 | 2153366728xie@gmail.com | Github | U.S. Permanent Resident

Education

Northeastern University, Boston, MA   Expected Graduation: Apr 2028

B.S. in Data Science and Mathematics; GPA: 3.6/4.0; Honor: Dean's List of Spring 2025

Work Experience

Carnegie Mellon University, Computer Science Department   Remote

Summer Intern   August 2023-October 2023

- Supported Music AI research requiring extensive data preprocessing and phoneme annotation for algorithm training
- Participated in the Music AI project, focusing on data labeling, lyrics extraction, song segmentation, and phoneme duration annotation for voice synthesis research
- Contributed 500+ soundtrack samples to advancing AI music generation and voice cloning research through systematic data preparation, audio analysis, and vocal pattern recognition training datasets

City of Quincy, Inspectional Services   Quincy, MA

Summer Intern   July 2022-July 2023

- Extracted raw data from OpenGov, organized, and analyzed 10,000+ records of Electricity, Plumbing, Gas, and Municipal Ordinance
- Processed 100+ permit applications (Reviewed blueprints and specifications; Monitored operations to ensure compliance with building codes; Recorded progress in OpenGov)
- Streamlined permit processing workflow and improved compliance monitoring by developing 10+ VBA macros in Microsoft Excel for automated report generation, reducing slowdowns

Project Experience

Self-Development-Construction Permit Management System   *July 2025-Present*

Full-Stack Web Application (In Development)

- Addressed municipal permit processing inefficiencies identified during the City of Quincy internship, requiring a comprehensive digital solution
- Architecting a comprehensive permit management system using Java 21 Spring Boot backend and React JavaScript frontend with scalable multi-user architecture supporting role-based access control; integrated R and Python scripts for map API requests, enabling address validation and filtering functionality
- Building an industry-standard application workflow with a normalized database schema, comprehensive backend services, and a responsive frontend interface that addresses real-world municipal permit processing challenges

Multi-Calendar System: Supporting multiple calendar types | Github Link   *May 2025-Jun 2025*

- Built a comprehensive calendar management system supporting multiple time zones and recurring events for complex scheduling needs
- Developed a multi-calendar application using Java 11 with MVC architecture and implemented the Model layer with event management and data persistence using design patterns
- Created a fully functional GUI interface with Swing, featuring CRUD operations, navigation, and search functionality through collaborative pair programming

Skills

Language: Python (Numpy, Pandas), JavaScript, VBA, DrRacket, Java, R, MySQL

Technologies / Frameworks: Git, Docker, Springboots

Specializations/Data Science: Statistical Analysis, Data (Visualization, Cleaning, Processing)