

Shayan Hussain Zardari

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EDUCATION

Bachelor of Science in Computer Science

May 2026

Long Island University, New York, USA

- GPA: 3.71/4.0
- Relevant coursework: OOP 1, OOP 2, Natural Language Processing
- Awards: President's Honors Award (100% tuition scholarship), Dean's List

EXPERIENCE

Software Engineering Fellow

Aug 2024 - September 2024

HeadStarter, New York, USA

- Developed 5 full-stack applications utilizing NextJS, React, MaterialUI, Stripe, Clerk, and OpenAI
- Engineered an AI-powered flashcard application with GPT-mini integration and implemented tiered pricing for premium features
- Created a RAG-optimized chatbot application providing professor rating functionality, similar to RateMyProfessor
- Acquired 50+ user signups across applications and received mentorship from Google engineers and Y Combinator founders

Research Assistant

July 2024 - August 2024

LIU Impact Academy, New York, USA

- Authored research proposal exploring machine learning techniques for modeling digital twins of human organs to predict disease progression
- Conducted comprehensive analysis of 6 academic papers for digital twin organ modeling methodology
- Analyzed 5 research papers to explore the development of research agent LLM models

PROJECTS

Face Recognition Attendance System

- Developed a real-time face recognition system using Dlib and OpenCV for automated attendance tracking
- Implemented computer vision algorithms for face detection, landmark detection, and feature extraction
- Created a SQLite database system to store and manage attendance records with date and time stamps
- Achieved efficient face matching using ResNet-50 deep learning model with Euclidean distance calculations

Modern Voice Recorder Application

- Built a desktop voice recording application using Python's Tkinter for GUI and SoundDevice for audio processing
- Implemented multi-threading to handle simultaneous recording and UI updates without freezing
- Designed an intuitive interface with real-time recording duration display and automated file naming
- Integrated error handling for audio device compatibility and file saving operations

To-Do List Application

- Developed a task management web application using HTML, CSS, and JavaScript with persistent storage functionality
- Implemented core features including task creation, completion tracking, and deletion with local storage integration

Email Newsletter Signup

- Designed and implemented a responsive newsletter signup interface with custom CSS utility classes
- Created an intuitive user experience with carefully crafted landing and success pages

SKILLS & CERTIFICATIONS

Technologies: React, NextJS, JavaScript, Python, C++, HTML, CSS, MaterialUI

Cloud & DevOps: AWS Certified Cloud Practitioner

Certifications: FreeCodeCamp Responsive Web Design, IELTS (8.0 bands)