

Anik Singha

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EDUCATION

Hunter College

B.A - Computer Science; GPA: 3.66

Aug 2021 - May 2025

Relevant Courses: Software Analysis and Design 3 (DSA), Computer Architecture 2, Operating Systems, Intro to Data Science, Relational Databases and SQL Programming, VR/AR/Mixed Reality, Practical Web Development

EXPERIENCE

Memorial Sloan Kettering Cancer Center

Jun 2024 - Aug 2024

Software Engineer Intern

- Created a React-based visualization tool for researchers to easily identify and analyze patient trends
- Designed a Neo4j graph database to efficiently store and manage patient data, enabling quick retrieval and updates
- Built a high-performance REST API using FastAPI with asynchronous requests, optimizing database interactions
- Developed a CI/CD pipeline with GitHub Actions for seamless integration and continuous deployment to AWS
- Implemented load balancing and sticky sessions with NGINX on AWS Elastic Beanstalk for simplified deployment

Google Software Engineering Program (G-SWEP)

Aug 2023 - Oct 2023

Participant/Mentee

- Selected as one of 80 participants, outperforming 1000+ applicants
- Participated in 10 weeks of rigorous, technical mentoring sessions with a Google SWE
- Attended workshops designed to enhance technical problem-solving and interview skills
- Collaborated with peers on coding challenges and received personalized feedback to improve algorithmic efficiency and code quality

MNC Development

Feb 2023 - May 2023

Software Engineer Intern

- Developed a fully functional real estate website from scratch, allowing users to easily rent/buy properties
- Utilized React and Material UI to create a visually appealing and responsive UI.
- Leveraged Firebase to develop and implement a robust backend solution, incorporating a high-performance database for efficient data storage and management
- Designed and implemented an advanced filter and sort functionality, resulting in a streamlined user experience

PROJECTS

OnboardAI

- Developed an AI-powered platform to help small businesses automate client calls for data collection, appointment scheduling, and marketing through lifelike AI voice interactions.
- Designed and implemented a scalable backend using ExpressJS, integrated third-party services, and deployed on AWS with Nginx to ensure high availability and scalability.
- Built optimized WebSocket integrations with Twilio for calling, Deepgram for real-time transcription and voice synthesis, and Llama for AI-driven responses.
- Built a responsive UI with React and Tailwind CSS for a seamless cross-device experience.

Password Manager

- Developed a comprehensive password manager using Fernet encryption, hashing, and salting for enhanced security
- Implemented OAuth with one-time passwords for secure user authentication and session management using cookies
- Deployed a high-performance MongoDB database with optimized queries and indexing for faster data retrieval.
- Architected a powerful backend using Flask and crafted an engaging and interactive frontend with React

TECHNICAL SKILLS

Languages: Python, Javascript, Golang, Java, C#

Frameworks/Tools: AWS Cloud, React, NodeJS, FastAPI, Flask, ExpressJS, Github Actions, Docker, Git

Databases : MongoDB, PostgreSQL, Neo4j, DynamoDB