

# Anik Singha

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## EDUCATION

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### Hunter College

*B.A - Computer Science; GPA: 3.65*

*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

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### Memorial Sloan Kettering Cancer Center

*Jun 2024 - Aug 2024*

*Software Engineer Intern*

- Created a React based visualization tool to help researchers identify and analyze trends in patient and gene data
- Architected a Neo4j graph model to optimize queries and enable trend analysis of data.
- Built a high-performance REST API with FastAPI, optimizing database operations for scalability and speed.
- Developed a CI/CD pipeline with GitHub Actions for seamless integration and continuous deployment to AWS
- Implemented load balancing and sticky sessions with 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

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### 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.

### AI Subtitle Generator

- Developed a subtitle generation platform by creating a custom wrapper for the Whisper AI API
- Built and deployed a self-hosted HTTP microservice using Flask, enabling seamless integration with applications
- Containerized the app and uploaded it to Docker Hub, simplifying deployment and making it easily accessible
- Developed a React frontend to simplify file uploads and included a video player for viewing videos with subtitles.

## TECHNICAL SKILLS

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

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

**Databases:** MongoDB, PostgreSQL, Neo4j, DynamoDB