

# Naseer Ahmed

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## EDUCATION

### Stony Brook University

Computer Science M.S. | Expected Graduation: December 2026

Stony Brook, New York

- Relevant Coursework: Computer System Security, Computer Vision, Analysis of Algorithms

Computer Science B.S. | Expected Graduation: May 2025

- GPA: **3.5/4.0**, Presidential Scholarship, Dean's List
- Relevant Coursework: System Fundamentals I & II, Data Structures, Discrete Math, Theory of Computation, Probability and Statistics, Fundamentals of Software Development, Analysis of Algorithms, Computer Security Fundamentals, Cloud Computing, Software Engineering

## EXPERIENCE

### Zebra Tech

Software Engineering Intern | May 2025 – Aug 2025 | Holtsville, NY

- Developed a **Duress Detection Android app** integrating Whisper (transcription), YAMNet (sound classification), and TensorFlow Lite for object detection.
- Integrated **GPT4All + LLMs** for emergency event classification.
- Built **BigQuery + Gemini page** for uploading tables/docs and generating AI-powered summaries & SQL insights.
- Leveraged **Google Maps API** and Zebra device networking for location-based alerts.
- Strengthened skills in **GenAI/ML, Android Studio, and GCP Cloud**; **presented project outcomes** and technical approach to Zebra management

### HeadStarter AI

Online Fellowship | July 2024 – September 2024

- Built apps with **Next.js, Firebase, and OpenAI APIs**; pitched projects in hackathons.
- Collaborated in agile teams to deliver functional prototypes.

### Brookhaven National Laboratory

Research Intern | July 2020 – Aug 2020 | Upton, NY

- Built **Python ML scripts** to improve sub-pixel resolution in germanium detectors using **NumPy/SciPy**.
- Presented findings at a BNL research seminar.

## PROJECTS

### Unpacking the Vote

- Developed a comprehensive web-based tool to analyze political data, including demographic and economic patterns across districts & precincts, using **heatmaps, scatter plots, and box-and-whisker visualizations**.
- Leveraged advanced algorithms and APIs to process and display voting behavior, district boundaries, and ensemble-generated district plans, integrating technologies like **PyEI** and **MGGG** on **SeaWulf** for large-scale data analysis.

### FakeStackOverflow Application

- Developed a full-stack web app inspired by stackoverflow.com for a user-friendly interface.
- Tech Stack: **React** frontend, **Node.js** with Express backend, **MongoDB** database.
- Features: User registration/login, post/answer questions, voting system.

### AI Research Summarizer with Audio Agents

- Built an **N8N AI agent** workflow using **OpenAI + Perplexity** to research and summarize topics.
- Automated conversion of summaries into audio using **OpenAI's TTS**, producing accessible, audio-ready reports.

### AI Rate My Professor Tool

- Built with **Next.js** for server-side rendering and **React** for the front end, this AI-driven tool uses **OpenAI's GPT models** to generate professor ratings and feedback. **Firebase Firestore** powers the backend for real-time updates

### Research Paper

- Ongoing with a Farmingdale CS professor/PhD candidate on publishing a research paper on utilizing AI to detect video manipulation.

## SKILLS

**Languages:** Java, Python, JavaScript, C, SQL, MATLAB, HTML/CSS, Kotlin

**Frameworks & AI Tools:** React.js, Node.js, Next.js, D3.js, TensorFlow Lite, Whisper, YAMNet, GPT4All, OpenAI APIs, Gemini, N8N

**Cloud & Platforms:** GCP BigQuery, Firebase Firestore, AWS, Android Studio, IntelliJ, PyCharm, Eclipse, GitHub, Jupyter, SeaWulf, MongoDB, Linux Commands