Sean Erfan

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EDUCATION

Stony Brook University *May 2025*

B.S. in Computer Science and Applied Mathematics & Statistics GPA: 3.96

Awards: 3 Hackathon Wins (HackHarvard '24, SBUHacks '24, HopperHacks '24), University Scholar, 6x Dean's List
Relevant Coursework: Software Engineering, Computer Networks, Offensive Security, Systems Fundamentals, Algorithm Analysis, Linear Programming, Statistics, Probability Theory

TECHNICAL SKILLS AND INTERESTS

Languages: Python, JavaScript, TypeScript, Java, C#, C, HTML/CSS, SQL
Libraries/Tools: Git, Next.js, React.js, Pandas, Pytorch, Node.js, ASP.NET, Tailwind CSS, Angular, MongoDB

EXPERIENCE

Full Stack Software Engineering Intern *Bohemia, NY*

North Atlantic Industries May 2025 – Present

- Deployed a Java-based wave picking Android app used by 7 warehouse workers daily to process production orders with optimized picking routes to streamline warehouse operations.
- Developed an ASP.NET Core API with 10+ endpoints interfacing with SQL Server, handling real-time inventory queries and transaction logging through custom stored procedures.
- Built a barcode scanning workflow with container and item verification, reducing incorrect container errors to zero.
- Automated inventory updates by synchronizing all warehouse transactions in real-time with Microsoft Dynamics AX, while implementing full undo capability to ensure data integrity.
- Designed and deployed a full-stack Angular/ASP.NET dashboard to manage IPC certifications for 75 employees, integrating AWS S3 for certificate storage and automating Jenkins email reminders to ensure compliance.
- Developed a kit management dashboard that earned honorable mention at a company-wide hackathon and was later extended to production, saving 6 hours weekly across the operations team.

President and Founder *ai-community-sbu.github.io/AI-SBU*

Artificial Intelligence Community Nov. 2022 – May 2025

- Founded and led a club of 10 officers, growing membership to over 700 Discord members and coordinating events including a Kaggle competition with $700 in prizes and a datathon with 50 participants and $300 in prizes.
- Hosted weekly workshops for over 60 attendees covering machine learning concepts using slideshows and Jupyter notebooks.
- Facilitated 3 career events and 5 guest speaker sessions showcasing AI applications in industry and academia.

PROJECTS

Nexus

nexussbu.com Aug. 2024 – Jun. 2025

- Collaborated with 3 developers to build a full-stack web application using Next.js, React, PostgreSQL, and TypeScript, empowering Stony Brook students to access over 130 research opportunities across 6 departments.
- Attracted over 300 active users and achieved more than 30 daily site visits within the first 14 days of deployment.

Flexy

devpost.com/software/flexy-and-i-know-it Oct. 2024

- Developed a full-stack web app with 3 teammates that won the AllHealth track at HackHarvard 2024, helping users recover from injuries and arthritis through guided exercise routines.
- Implemented pose detection using OpenCV and MediaPipe to compare a user's live camera feed against 50+ reference images, ensuring proper form during recovery exercises.

PBX Telephone Exchange Simulator

github.com/Shameed4/PBX-Server Dec. 2024

- Developed a multithreaded TCP server in C on Linux to simulate a Private Branch Exchange (PBX) system, using POSIX threads and socket programming to handle concurrent client communication.
- Implemented a thread-safe state machine for telephone units (TUs) and synchronized shared data using semaphores.

Hocus Potus

github.com/ritessshhh/Hocus-Potus-SBUHacks-2024 Feb. 2024

- Won Best Use of MongoDB Atlas at SBUHacks 2024 by building a gamified web app to quiz users on 2024 U.S. presidential candidates to promote political awareness.
- Utilized the OpenAI API to dynamically generate questions for 4 candidates and stored user feedback in MongoDB.