

STEVEN SIKORSKI

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EDUCATION

City University of New York Hunter College

Bachelor of Arts in Computer Science, Minor in Mathematics

August 2021 – May 2025

GPA: 3.70/4.00

- **Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Programming in C++, Operating Systems, Computational Vision, Database Management, Computer Architecture, Computer Theory, Discrete Mathematics, Matrix Algebra, Calculus I & II, Applied Statistics
- **Awards:** 6x Dean's List

EXPERIENCE

Technical Lead

Polish Cultural Club of Hunter College

December 2023 – Present

New York, NY

- Volunteered to develop the Polish Cultural Club website, creating a dynamic online platform to enhance club visibility and increase community participation in preparation for the club's reopening
- Coordinated with a team of club board members over several months to strategize the club's website as a platform for organizing, promoting, and increasing club engagement

Web Development Intern

STEMKasa Learning Center

June 2023 – August 2023

New York, NY

- Developed the backend of a messaging platform, integrating large language models to enable communication between students and artificial intelligence tutors
- Achieved a 40% improvement in backend efficiency by implementing caching with Node.js, significantly reducing the number of requests to retrieve user messages from the MongoDB database
- Collaborated with a team of 8 interns in an Agile environment to develop the STEMKasa Learning Center, participating in bi-weekly Scrum meetings to refine the project roadmap and optimize milestone delivery

PROJECTS

PitWall | *OpenAI, TypeScript, Node.js, React.js, Next.js, Tailwind CSS*

- Developed a chat application to use large language models and retrieval-augmented generation to respond to user queries with information about live Formula 1 sessions
- Enhanced real-time response accuracy by integrating the OpenF1 API to retrieve real-time data from Formula 1
- Integrated Next.js, Vercel AI SDK, and OpenAI's Core API endpoint for efficient query handling and context-aware responses
- Designed and implemented React.js components to create intuitive UI elements that dynamically display session data

Polish Cultural Club Website | *TypeScript, Node.js, PostgreSQL, React.js, Next.js, Tailwind CSS*

- Led the development of the Polish Cultural Club website using Next.js for server-side rendering, React.js for dynamic elements, PostgreSQL for database management, and TypeScript for backend development
- Designed and implemented a PostgreSQL database schema for account and event management, connecting it with a dashboard to enable club board members to efficiently manage website content and events
- Automated the development process through a CI/CD pipeline utilizing Vercel for automated build deployment, unit testing, and pushing to production

Maze Solver | *C++, OpenCV*

- Developed a command-line interface program with C++ and OpenCV to analyze and process maze images into a 2D matrix representation for solving
- Optimized algorithm efficiency by implementing a depth-first search solution, significantly reducing maze-solver time compared to random traversal methods

ASLearn | *HTML, CSS, JavaScript*

- Contributed with a team of 4 to design and implement the full-stack functionality of an American Sign Language translation tool, developing the front-end components for a static webpage with HTML/CSS and JavaScript
- Presented ASLearn at the HackNYU 2022 hackathon to a virtual audience of 500 participants, showcasing our website's features and the impact of engaging with sign language

SKILLS

Programming: JavaScript, TypeScript, C/C++, Python, SQL, HTML/CSS, Assembly

Frameworks/Libraries: React.js, Next.js, Node.js, OpenAI, OpenCV, Tailwind CSS

Database/Tools: PostgreSQL, MySQL, MongoDB, Linux/Unix, Git, Visual Studio Code, Microsoft Office