STEVEN SIKORSKI

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EDUCATION

CUNY Hunter College, New York, NY — August 2021 – May 2025
Bachelor of Arts in Computer Science, Minor in Mathematics — **GPA**: 3.70/4.00

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

EXPERIENCE

Technical Lead — December 2023 – Present
Polish Cultural Club of Hunter College — New York, NY

- Spearheaded the development of the club's website using Next.js and React.js, with a focus on enhancing the club's online presence and preparing for future membership growth
- Designed and implemented a relational database schema using PostgreSQL to handle account and event data, ensuring efficient data retrieval and management through a dashboard
- Automated the development process through a CI/CD pipeline utilizing Vercel for automated build deployment, unit testing, and pushing to production
- Led a multi-functional team of 6 board members in conceptualizing the website as a platform for organizing events, promoting activities, and increasing community engagement

Web Development Intern — June 2023 – August 2023
STEMKasa Learning Center — New York, NY

- Contributed to the development of the backend of a messaging platform, focusing on 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 REST API requests to retrieve user messages from the MongoDB database
- Collaborated with a team of 8 interns in an Agile environment to develop parts of the platform, participating in 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 (RAG) to respond to user queries with real-time information about live Formula 1 sessions
- Integrated Next.js, Vercel AI SDK, and OpenAI's Code API endpoint to efficiently stream responses, ensuring timely and context-aware information delivery
- Enhanced real-time response accuracy by integrating the OpenF1 API to retrieve real-time data from Formula 1
- Created dynamic UI elements with React.js to display retrieved real-time session data

Maze Solver | *C++, OpenCV*

- Developed a command-line interface program using C++ and OpenCV to process maze images by converting them into a 2D matrix for pathfinding
- Optimized maze-solving efficiency by implementing a depth-first search algorithm, resulting in a 50% improvement in solving computation compared to a brute-force approach
- Designed an object-oriented system to interpret maze structures through pixel color detection, allowing for accurate recognition of wall boundaries, paths, and start/end points

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