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, 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

- 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 — June 2023 – August 2023
STEMKasa Learning Center — New York, NY

- Played a key role in developing the STEMKasa tutor messaging platform by integrating large language models, including GPT, Claude, and Llama through backend and API integration, enabling students to communicate with artificial intelligence tutors
- Achieved a significant 40% improvement in backend efficiency by implementing caching methods with Node.js, drastically reducing the number of API requests made to the MongoDB database
- Collaborated with a team of interns in an Agile environment to develop the STEMKasa learning center, participating in bi-weekly meetings to discuss the roadmap and optimize project milestones

PROJECTS

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

- Created a natural language processing chat application by integrating large language models and retrieval-augmented generation, enabling responses to user queries with real-time FORMULA 1 data during live race sessions
- Integrated the OpenF1 API to deliver live updates for ongoing FORMULA 1 sessions, enhancing the accuracy and relevance of large language model responses with real-time data
- Designed and implemented React.js components using Vercel AI SDK and OpenAI to create intuitive UI elements that dynamically display FORMULA 1 session data

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

- Led the development of the Polish Cultural Club website using Next.js, creating a full-stack project that integrates React.js for dynamic elements, PostgreSQL for database management, and TypeScript for backend development
- Designed an account and event database schema with PostgreSQL, integrating it with a dashboard to provide club board members the ability to manage website content and events
- Implemented a CI/CD pipeline utilizing Vercel for automated build deployment, unit testing, and production

Maze Solver | *C++, OpenCV*

- Developed a command-line interface program with C++ and OpenCV to analyze maze images, converting them into a 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 webpage, developing the front-end components for a static webpage with HTML/CSS and JavaScript
- Presented ASLearn to a virtual audience of 500 participants at HackNYU 2022, 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: Git, PostgreSQL, MySQL, MongoDB, Visual Studio Code, Microsoft Office