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**: 3.7/4.0
- **Relevant Coursework**: Data Structures and Algorithms, Object-Oriented Programming in C++, Advanced Applications, Operating Systems, Computer Vision, Computer Security, Database Management, Web Development, Flutter App Development, Computer Architecture, Computer Theory, Discrete Mathematics, Matrix Algebra, Calculus I & II, Applied Statistics
- **Awards**: 6x Dean's List

EXPERIENCE

Technical Lead   December 2023 – September 2024
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 startup environment to develop parts of the learning platform, participating in Scrum meetings to refine the project roadmap and optimize milestone delivery

PROJECTS

PitWall | *OpenAI, TypeScript, Node.js, Next.js, React.js, Tailwind CSS*
- Developed a Formula 1 chatbot utilizing large language models and retrieval-augmented generation (RAG) to process real-time session data, delivering accurate race insights, contextual updates, and live information
- Integrated the OpenF1 API to dynamically retrieve live race data, including track and weather conditions, driver-team radio, driver positions, and session updates
- Leveraged Next.js, Vercel AI SDK, and OpenAI's API for efficient query handling and context-aware responses
- Designed an interactive UI with React.js to display real-time data visualizations, enhancing the overall spectator experience

ParkingSpot | *Python, YOLOv8, OpenCV, Raspberry Pi*
- Engineered a street parking detection system on a Raspberry Pi, leveraging computer vision to capture and analyze images of available parking spots in real-time
- Deployed the YOLOv8 object recognition model for image processing, enabling precise vehicle detection for reliable and accurate tracking of street parking spaces
- Tested the system across variable lighting, weather, and obstructions to validate consistent accuracy and reliable detection
- Implemented Twilio for real-time text message notifications of street parking availability

Password Generator | *C#, .NET, Xcode*
- Built a password generation desktop application, creating randomized passwords tailored to user-defined criteria
- Integrated the .NET Xamarin framework to develop a natively compatible desktop application for macOS systems
- Designed and implemented a graphical user interface using Xcode's Interface Builder, offering an intuitive experience with customizable options and clipboard functionality

SKILLS

Programming: JavaScript, TypeScript, C/C++, Python, SQL, C#, HTML/CSS, Assembly
Frameworks/Libraries: React.js, Next.js, Node.js, OpenAI, OpenCV, Tailwind CSS, .NET
Database/Tools: PostgreSQL, MySQL, MongoDB, Vercel, Linux/Unix, Git, Microsoft Office