Kevin Elshemy

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PROFESSIONAL EXPERIENCE

HEADSTARTER AI   **New York, New York**
Software Engineering Fellow   **JUNE 2024 - September 2024**
- Built 5+ AI applications using NextJS, OpenAI, Pinecone, and Stripe, achieving 98% accuracy and serving 1,000+ users.
- Led a team of 4 engineering fellows in project development, applying MVC design patterns to ensure robust and scalable software solutions from design to deployment, ensuring maintainability and scalability.
- Coached by Amazon, Bloomberg, and Capital One engineers, gaining expertise in Agile, CI/CD, Git, and microservice patterns.

SBU INFORMATION TECHNOLOGY DEPARTMENT   **Stony Brook, New York**
IT Systems Intern   **JANUARY 2024 - May 2024**
- Configured and set up over 50 new PCs, including installing essential applications and integrating them into the domain, which streamlined user access and improved system management efficiency.
- Resolved hardware and software issues, addressing problems such as unresponsive peripherals, software installations, and domain connectivity, leading to a 30% increase in system reliability and user satisfaction.
- Provided technical assistance to over 100 faculty, staff, and students regarding hardware, software, and network issues, ensuring prompt resolution of IT-related problems and minimizing downtime. Communicated technical information concisely.

TRADER JOE'S   **Queens, New York**
Operations Supervisor   **MAY 2023 - September 2023**
- Nominated as Crew Member of the Month for August, recognized for exceptional work ethic and leadership, contributing to a 15% increase in operational efficiency and setting a high standard for team performance and productivity.
- Promoted to manage a specific aisle by overseeing product levels, conducting regular inventory counts, and coordinating shipments and restocking efforts, ensuring optimal inventory levels and a 40% reduction in stockouts.
- Adapted to a fast-paced work environment, effectively handling multiple tasks simultaneously and prioritizing responsibilities, which improved checkout speed and reduced customer wait times. Processed checkout transactions with a 100% accuracy.

PROJECTS

CARDQUEST   **JavaScript, React, Next.js, Firebase, Clerk, Stripe, Open AI, Material-UI**
- Spearheaded the creation and launch of an advanced interactive web-based tool designed to significantly enhance knowledge retention. The platform allows users to create, customize, and save flashcards tailored to their learning needs.
- Introduced Learn Mode, providing users with an adaptive learning experience that reshuffles challenging flashcards until mastery, accompanied by real-time feedback. Led to a 20% increase in user engagement and a 35% increase in subscriptions.
- Integrated user authentication and account management, ensuring secure sign-up and sign-in with Clerk and subscription management with Stripe. Handled over 100 users with 1000+ daily requests at its peak.
- Successfully processed over $500 worth of transactions between our two tiers with universally positive feedback from users

KITCHEN HELPER   **JavaScript, React, Next.js, Node.js, Firebase, Gemini API**
- Engineered an application that features a Pantry Tracker for real-time inventory management and a Recipe Generator that dynamically creates recipes based on available ingredients, streamlining kitchen organization and meal planning for users.
- Leveraged Firebase for real-time data synchronization and management, enabling seamless updates and interactions within the application. Over 3000 items were added to the pantry, with 92% of users interacting with the AI Recipe Generator.

PROFPAL   **JavaScript, React, Next.js, Open AI, Jupyter Notebook, Pinecone**
- Developed an AI-powered support assistant that successfully retrieves and analyzes professor information for over 100 queries weekly. Streamlined the search process for users by implementing a vector-based search using Pinecone.
- Implemented a RAG system to accurately recommend the top 3 professors based on user queries, improving recommendation relevance by 50% and integrated real-time streaming with OpenAI's API to dynamically generate and display responses.

ESPORTS NEXUS   **SQL**
- Constructed and implemented a robust SQL database to manage and track over 500 data points related to the professional eSports scene for League of Legends and Valorant, including real-time statistics and insights for teams, players, and matches.
- Optimized database schemas to handle complex queries and large datasets, improving data retrieval efficiency by 30%. Designed normalized tables and indexing strategies to enhance query performance and reduce load times.

TECHNICAL SKILLS

FRAMEWORKS/LANGUAGES: Python, React, CSS, HTML, Next.js, Java, JavaScript, SQL, Firebase, Node.js, Ruby, Material-UI, Pandas
TOOLS: Git, Github, Visual Studio Code, IntelliJ, MS Access, PyCharm, Eclipse, VMWare, Wireshark, Figma, Vercel

EDUCATION

STONY BROOK UNIVERSITY   **Stony Brook, New York**
Bachelor of Science in Information Systems   **2020 - 2024**
- GPA: 3.5/4
- Notable Courses: Data Structures, Analysis of Algorithms, Computational Geometry, Database Design, Computer Networks, Systems Admin, Computer Security, Intro to Network Admin, UI Development, Scripting Languages, OOP