Jacob Kerames

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EDUCATION

Colorado State University Global, Denver, Colorado   **May 2023**
Bachelor of Science in Computer Science   GPA: 4.0
- **Honors:** Summa Cum Laude
- **Relevant Coursework:** Software Engineering, Platform Based Development, Data Structures and Algorithms, Programming III, Database Management, Operating Systems and Architecture, Artificial Intelligence

EXPERIENCE

Software Engineer Intern, New York, New York   **September 2023 – November 2023**
AKN Realty
- Developed a dynamic map with the Google Maps JavaScript API and .NET MVC, capable of rendering 20,000+ listings from a SQL Server database as clusters of markers with detailed popups.
- Utilized Google Maps JavaScript API to delineate more than 50 Manhattan neighborhoods by their coordinates, in GeoJSON format, and integrated them with corresponding checkboxes for user selection.
- Efficiently structured and normalized the database by incorporating over 300 unique data points across six tables, optimizing query performance by 40% and supporting scalable app functionality.
- Collaborated with a team to transition UI designs into fully functional interfaces for two integral pages.

PROJECTS

SkillsScope ⬈

Next.js, React, TypeScript, .NET, C#, Python, PostgreSQL, Azure, Git, Mantine, Scrapy, D3.js
- Engineered a web app which provides job-seekers with insight into the most-desired skills, education, and experience for the jobs they want, based on 3.4M+ job postings and counting.
- Designed an interface where users can search for job titles, view results through dynamic D3 charts, and filter included postings, providing insights at least 50% faster and more accurately than existing sources.
- Employed a PostgreSQL database and a .NET Web API for robust data management, producing 50+ dynamic SQL queries, models, repositories, interfaces, and DTOs.

Portfolio ⬈

Next.js, React, TypeScript, .NET, C#, Azure, Git
- Built a web app featuring a terminal-styled global component which enables users to interact with a CLI to access information and use personal projects, resulting in a 150% increase in user engagement.
- Leveraged Azure's cloud capabilities for seamless deployment and scalability of a Next.js, React, TypeScript frontend, and .NET backend, ensuring 99.99% uptime and resilience against traffic spikes.

Stock Trading Simulator ⬈

Next.js, React, TypeScript, .NET, C#, SQLite, Git, Chart.js
- Constructed a real-time stock trading simulatior, driving a 50% enhancement in learning outcomes by providing users with hands-on experience in executing transactions that mirror the volatility and trends of the live market.
- Simplified complex stock and investment statistics for users by crafting five Chart.js visualizations, achieving a 200% improvement in time needed to draw conclusions from data and learn stock market dynamics.

SKILLS

Languages: C#, Python, JavaScript, TypeScript, SQL (PostgreSQL, MS SQL Server, MySQL, SQLite), HTML/CSS, Bash, Java, C++, Swift
Frameworks: Next.js, React, .NET, Scrapy, Bootstrap, Mantine, D3.js, Chart.js
Tools: Git, Azure, Visual Studio, VS Code, Android Studio, IntelliJ, Eclipse, PyCharm, Xcode, DBeaver, Azure Data Studio, Docker