

Jacob Kerames

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EDUCATION

Colorado State University Global, Denver, Colorado

May 2023

Bachelor of Science in Computer Science

GPA: 4.0/4.0

- **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

September 2023 – November 2023

AKN Realty

New York, New York

- 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.
- Delineated more than 50 Manhattan neighborhoods by their coordinates, in GeoJSON format, and integrated them with corresponding checkboxes, enabling users to select neighborhoods from a list and map.
- Efficiently structured and normalized the SQL Server database by incorporating over 300 unique data points across six tables, optimizing query performance by 40% and supporting scalable app functionality.
- Collaborated with departments to translate Adobe XD UI designs into fully functional .NET interfaces for the home and search pages, satisfying the central functionalities of the app.

PROJECTS

SkillsScope 

Next.js, React, TypeScript, .NET, C#, Python, PostgreSQL, Azure, Git, Mantine, Scrappy, 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 other competitors.
- 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 site traffic.
- 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 simulator, 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: Java, C#, Python, JavaScript, TypeScript, SQL, HTML/CSS, Bash, C++, Swift, XML

Frameworks: Next.js, React, .NET, Scrappy, Bootstrap, Mantine, D3.js, Chart.js

Tools: Git, Azure, Visual Studio, Android Studio, IntelliJ, Eclipse, PyCharm, Xcode, DBeaver, Docker, Dapper, Npgsql