RIJAN KAFLE

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EDUCATION

Augustana College   **February 2021 - December 2024**
Bachelor's, Computer Science   *GPA: 3.55*

PROFESSIONAL EXPERIENCE

Group O   **Milan, IL, USA**
Information Technology Intern   *May 2024 - August 2024*
- Configured 3 rewards program websites on Azure App Services, optimizing deployment slots, custom domains, SSL certificates, and performance monitoring with Application Insights, ensuring secure, scalable, and seamless functionality.
- Managed and troubleshoot backend pools for 6 application gateways across production and non-production environments, reducing downtime by 20% and improving application response times by 15%, ensuring seamless operation for critical business functions.
- Authored and implemented 5+ PowerShell scripts to automate asset management processes, cutting manual effort by 30%, reducing errors, accelerating audits, and enhancing data accuracy.
- Contributed to migrating websites from Azure App Service Environments (ASE) to standalone web apps, optimizing resource usage and reducing operational costs by 30%.

Edge Center   **Rock Island, IL, USA**
Front End Developer   *January 2024 - May 2024*
- Contributed to the Augustana Web Guild, helping develop websites for local nonprofits and small businesses, improving their online presence and engagement.
- Developed and launched a fully responsive website for Cool QC Quad City, achieving 100% cross-browser compatibility and a 40% faster page load time.
- Built interactive UIs with React.js, implementing real-time event calendars, validated contact forms, and interactive donation portals, increasing user engagement by 60%.
- Implemented Git for version control, streamlining collaboration among a team of 5 developers and reducing code conflicts by 80%.

PROJECTS & OUTSIDE EXPERIENCE

MarketSim - *Link to project*
- Designed and developed "MarketSim," an educational mobile application that combines a stock market simulator with gamified learning features to teach users about investing and trading.
- Developed a cross-platform mobile application using Flutter and Dart, implementing a stock trading simulator and educational game features.
- Integrated Firebase Authentication and Firestore to manage user accounts and securely store real-time portfolio data.
- Utilized the Polygon.io API to fetch and process live stock market data, ensuring up-to-date information for users.

Chore Tracker
- Developed a cross-platform mobile app using React Native to track and assign household chores, actively used by 3 roommates, improving task accountability.
- Built a Go-based backend with RESTful APIs, handling user authentication, chore assignments, and dynamic task scheduling with 99% uptime.
- Designed and optimized a PostgreSQL database to efficiently store and retrieve user profiles, chore details, and task history, reducing query response times by 30%.
- Implemented real-time notifications to alert users about pending tasks using Firebase Cloud Messaging (FCM).

QuizzGen
- Built a full-stack quiz generator using React.js, Node.js, and MongoDB, enabling users to upload study materials (PDF, PPTX, DOCX) and automatically generate quizzes via OpenAI API, reducing manual content creation time by 80%.
- Integrated Firebase Storage and Auth to securely manage user uploads and authentication, supporting 10+ file formats and implementing antivirus scanning to ensure 100% malware-free file processing.
- Deployed scalable architecture on Vercel and Render, optimizing API costs by 40% through rate limiting and caching, while enabling real-time quiz sharing via unique links for 10+ active users.

Texas Housing Price Prediction - *Link to project*
- Built a machine learning model using Scikit-learn to predict Texas housing prices, achieving an R-squared score of 0.63, demonstrating strong predictive accuracy.
- Preprocessed and cleaned a dataset of over 1 million property records, handling missing values, outliers, and ensuring data consistency for optimal model training.
- Implemented feature engineering techniques, including scaling, encoding, and feature selection, improving model performance by 15%.
- Visualized key insights using Matplotlib and Seaborn, identifying trends in housing prices based on location, square footage, and amenities.

SKILLS

Skills: Microsoft Azure, PowerShell, HTML/CSS, React.js, AngularJS, Python, Java, Firebase, Dart, Git, JavaScript, Postgres, REST APIs, Flutter, MongoDB, Express.js, Vercel