KUNJ PATEL

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PROFESSIONAL SUMMARY

Software Developer with advanced experience in optimizing software solutions and managing complex data flows. Successfully led the development of data-driven applications, integrating advanced front-end and back-end technologies for extensive profitability analysis and operational efficiency. Collaborative in nature, with a proven track record of enhancing performance and deploying scalable systems, aims to contribute actively to software initiatives while improving product quality and security.

EDUCATION

University of Illinois - Chicago   **January 2018 - May 2021**
Bachelor's, Computer Science
- Courses: Algorithms, Data Structures, Python, Artificial Intelligence, C/C++, Computer Architecture, Networks, Computer Security, Compilers Assembly, Operating Systems, Logic Analysis, Software Methodology

CERTIFICATIONS

AWS Associate Developer, Google IT Automation with Python

PROFESSIONAL EXPERIENCE

eChemportal Inc   **Plano, TX, USA**
Software Developer   *May 2021 - Present*
- Engineered and fine-tuned multiple Llama 3.2 LLM models for secure, on-premise deployment using proprietary customer data, significantly improving workflow efficiency by 63.64%.
- Led the development of a data science project using Python, Pandas, and SQL Server to optimize pricing strategies, ensuring scalability and high performance, resulting in the company's products ranking in the top 5.
- Designed and implemented pricing algorithms based on product rankings and costs, utilizing Python and SQL to enhance operational efficiency, contributing to a 85% increase in product visibility.
- Leveraged ReactJs, Tailwind CSS, and JavaScript to manage complex state and asynchronous data flow, integrating the pricing algorithms into the web application to improve user experience.
- Developed a program with REST API to generate IUPAC data from SMILES, using machine translation and cheminformatics libraries RDkit and Indigo for enhanced data scalability.
- Collaborated with stakeholders to build responsive internal applications, integrating front-end frameworks such as React.js, NextJS, and redux with Node.js and Express for enterprise product management.
- Optimized communication and order processing within agile squads by leading the development of the anocha and CRM tool with an open-source full-stack approach, utilizing React, Jinja, Python, Express, and JavaScript.
- Streamlined order data input to QuickBooks using C#, interfacing with SQL Server and QuickBooks SDK to ensure reliable data synchronization and minimize financial discrepancies.
- Developed a Python and Django-based tool for real-time bank transaction data integration, utilizing RESTful API development to synchronize financial data efficiently.
- Refined development pipeline by utilizing CI/CD including testing and deploying on docker using Docker SDK.
- Implemented comprehensive API strategies using Django REST Framework for secure financial system integrations and third-party API services such as Plaid and ERPNext using microservices.
- Ensured data integrity and security compliance using a custom permission system, which enhanced software development processes and improved operational security.

University of Illinois at Chicago   **Chicago, IL, USA**
Teaching Assistant   *January 2019 - December 2020*
- Facilitated 20+ workshops and discussions to help 40+ students with courses in Computer Science.
- Developed 5 tutorials on how to write computer programs and solve engineering problems.

PROJECTS & OUTSIDE EXPERIENCE

Flights, A Travel Reservation Website   **Chicago, IL, USA**
                                                                     October 2019 - December 2019

- Created a website that allows users to view or make flight reservations for 1000+ flight schedules using HTML/CSS, Java, JavaScript, and MySQL.
- Developed efficient test strategies to verify website, collected and modified data to improve user experience by 20%.
- Hosted the website using AWS S3, MySQL workbench and AWS RDS for related functionalities. Stored data in MySQL database and modified it along with selected payment options.

Amazon - Full Stack, Independent Project   **Chicago, IL, USA**
May 2021 - June 2021
- Utilized Next.js, Tailwind CSS, Fakestore REST API for demo data on the responsive page of the Amazon clone.
- Utilized the search function to define the shortest path and updated the code to increase the efficiency by 30%.
- Implemented Stripe.js to simulate purchases made on the Amazon clone. Used Firebase as a backend server to handle checkout and Post requests to Stripe.com.

Durango, A Simple Server Monitoring Tool   **Chicago, IL, USA**
January 2021 - February 2021
- Built a small-scale version of system monitoring with 5 functionalities using sockets, multithreading, WakeOnLan (WoL) and ping. Functionalities included: Sending magic packets to wake up server, native push notifications in case a server goes offline, pinging using IP or web address, monitoring multiple servers simultaneously in the background.
- Developed using React Native for support 2 major operating systems (Android and iOS) with a single code base.

SKILLS

Computer Science: Data Structures & Algorithms, Linear programming, Nonlinear optimization
Programming: C#, Python, NumPy, Adobe After Effects, Pandas, HTML/CSS, JavaScript, XML, Git, C/C++, MATLAB, Web services, API, REST APIs, JSON, Machine Learning, CircleCI, FastAPI, Next.js, Node.js
Framework: React.js, React Native, jQuery, NextJS, Python, JavaScript, Django, Pytorch
Databases: Relational databases, NoSQL, MySQL, MongoDB
Systems: Linux/Unix, Docker, Nginx
Methodologies: Agile, SCRUM
Other: Microsoft Office (Word, Excel, Access, PowerPoint), Excel/Numbers/Sheets
Languages: Hindi, Gujarati