Tejas Kalyan

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Summary

Driven software engineer with a strong foundation in object-oriented programming and software design, seeking to leverage my skills in a software engineer position. Experienced in high-quality, scalable, and secure application development.

Education

University of Washington Bothell Graduated: June 2023
Bachelor of Science, Computer Science GPA: 3.83
Bachelor of Science, Mathematics GPA: 3.83

Skills

Programming Languages: Java, C#, Python, JavaScript, TypeScript, C++, HTML, CSS, MATLAB
Tools & Frameworks: ReactJS, .NET, Linux, Git/GitHub, MySQL, PostgreSQL, Visual Studio, Microsoft Azure, AWS, Node.js, Flask

Experience

Software Engineer, Systova Tech LLC August 2023 - Present
Client: Horizen Ag Inc.

- *Full-Stack Web Development* for a startup company building a large-scale ERP SaaS cloud application for agricultural retailers
- *Project Management:* Led a team of three interns to build a full-scale double-entry accounting platform to help 20+ customers manage financial accounts and transactions
- *Artificial Intelligence*: Implemented an Azure Functions app using Azure Document Intelligence Services and Azure OpenAI to automate the extraction and conversion of financial data from images and PDFs into transactions for purchase and sales orders, reducing manual errors by 90% and increasing efficiency by saving customers 2-3 hours daily
- *AI Agents*: Built AI Agent with ML.NET and OpenAI to allow customers to view financial data and generate financial reports and charts in seconds; saved customers 10+ hours per report
- *Order Management System*: Developed a Purchase Order module for shipping chemicals and fertilizers with Entity Framework and C#, backed by a PostgreSQL database hosted on Azure. This system has successfully processed over 50,000 orders
- *Invoicing*: Developed a robust invoicing system capable of processing sales orders, equipped with features for PDF downloads, automated customer emailing, and comprehensive management of partial invoices that include discounts, fees, taxes, and specific product details
- *Front-End Development*: Crafted interactive UI components in React with TypeScript to facilitate functionalities including managing vendors, manufacturers, and products
- *Data Hierarchies*: Constructed an intuitive hierarchical component to visually represent relationships among over 50 agricultural retailer subsidiaries, enhancing customers' organizational monitoring capabilities
- *GraphQL*: Developed and integrated GraphQL queries and mutations using Hot Chocolate and Apollo to manage chemical products directly in the application, eliminating the need for customers to rely on external manufacturers' websites for product data, Safety Data Sheets (SDS), and regulatory information
- *Security*: Configured point-to-site VPN gateway in Azure, enabling developers to connect securely to the Dev database within a restricted Azure Virtual Network; collaborated with a network engineer to implement authentication using certificates

Projects

Teaching Tools January 2023 – June 2023

- Played a key role in developing a React-based web application that introduced additional functionalities to the Canvas platform
- *Feature Development*: Led the design and implementation of:
    - Tools for quiz editing and management
    - Systems for creating assignment groups
    - Capabilities for importing course data directly into a MySQL database
- *API Integration*: Architected RESTful APIs to synchronize with the Canvas API using Python and Flask. Debugged integration points to ensure seamless data flow and functionality
- *Teamwork*: Collaborated with five teammates across all phases of the software development lifecycle—requirements analysis, design, coding, and testing—in an agile environment
- *DevOps*: Researched and leveraged GitLab for version control and to implement CI/CD best practices and tools, streamlining the development and deployment processes which reduced the cycle time for prototype updates
- *Test-Driven Development*: Employed TDD practices, writing and refining unit and integration tests before implementing functionality to effectively troubleshoot potential problems, enhancing code quality
- Maintained clear communication through standups and adapted to changes through consistent code reviews and documentation

Population Prediction Model October 2022 – December 2022

- Developed a Python-based web API service to predict the United States' future population using machine learning
- *Data Analysis & Sourcing*: Analyzed over 1,000 data points encompassing population metrics, fertility rates, and related parameters
- *Algorithm Implementation*: Employed the advanced XGBoost algorithm to optimize prediction accuracy and model efficiency