Vijay Kumar Kadamanchi

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Summary

3+ years of experience creating and delivering high-quality software programs as an experienced software engineer proficient in a variety of programming frameworks and languages. Skilled at working with cross-functional teams to ensure project success.

Professional Experience

Software Developer, SUNY Research Foundation, Binghamton, New York   *June 2022 - Present*
- Researched and analyzed Ecological Crisis information from 3 academic journals and outcomes data using ArcGIS tool to inform the development of a new product, resulting in a 15% increase in user satisfaction ratings.
- Designed an intuitive user interface for a web application, resulting in a 40% increase in user engagement and retention using Angular 13 framework, HTML 5, BootStrap.
- Developed and Optimized backend programs to improve app speed and performance by 75% using Java 11, Spring Boot , Microservice Architecture and RestClient.

Global Health Impact, Software Engineer Intern, Binghamton, New York   *September 2021 - December 2021*
- Developed and executed Python scripts to automate data processing for the dashboard which tracks different metrics of recent Health impacts, resulting in a 40% reduction in processing time for the company's clients.
- Collaboration with a team of software engineers to design and develop React JS and Python Flask dashboard components that increased user engagement by 60%.

Cognizant Technology Solutions, Hyderabad, India   *September 2018 - April 2020*
Client - Verizon
- Integrated geospatial Internal APIs into the web application to provide advanced mapping functionalities, including routing and testing. Ensured seamless integration and optimized performance improved by 15% for a smooth user experience.
- Programmed Rest API's with 90% fault tolerance and ensured 99% accuracy for the geospatial endpoints by maintaining asynchronous code.
- Worked closely with GIS analysts, product managers, and backend developers to design and develop geospatial features, prototype solutions for Fiber Inventory Management.
- Applied Agile software development methodologies, resulting in a good communication and 50% reduction in development time for new features and enhancements.

Client - Bank Of New York Mellon
- Revamped a legacy application by migrating from JSP & Spring MVC to Angular 8, Java & Spring Boot resulting in an overall code and configuration reduction of 50% and improved system performance by 30%.
- Enhanced the existing application by creating multiple profiles/distributed configurations which were served by different environments by using spring cloud config approach.

Academic Project Experience

Global Statistics Analysis Dashboard, Binghamton University | Tech Stack: Python 3, Node Js, jQuery   *January 2022 - May 2022*
- Created an interactive Visual Analytics Dashboard to assess and record changes in GDP trends based on the variables that either directly or indirectly influence it.
- Commended for its original idea, listed among the top 10 projects, and accurate depiction of data patterns.

Deep Reinforcement Learning to play Box The Box, Osmania University | Tech Stack: Python 3, TensorFlow, ML, CNN   *January 2018 - May 2018*
- Played an important role in team of 3, modeled and trained a single agent to play Box the Box game. Implemented Q-function that has an image frame array giving pixel values 0-255 by utilizing Neural Networks and Greedy Exploration.
- Built Experience replay as a function that makes use of memory space to be 500 and batch size to 50, each returns a set of Q-values which are used by TensorFlow computations that are expressed as stateful dataflow graphs.

Technical Skills

Languages: C, (Expert)Java , (Proficient)Python, JavaScript
Software and OS: Eclipse, VSCode, PyCharm, Jupyter, TensorFlow, IntelliJ, Putty, WinSCP, Windows, MacOS, Linux(Fedora, Arch and Ubuntu)
Databases: MySQL, MongoDB, PostgreSQL, SQL Server
Web Skills & Frameworks: Html 5, CSS, Ajax, Bootstrap, TypeScript, jQuery, Angular 2/8+, React JS, Node JS, Spring MVC, Spring Boot, Hibernate, JPA, Spring Security, Spring Cloud, Eureka Server, Microservices, Restful Web services, Maven, Git version control, Docker, Jenkins, CI/CD

Education

Master's in Computer Science | Binghamton University, NY   *December 2022*
Key Courses: Operating Systems, Programming for the Web, Design Patterns, Design and analysis of Complex Algorithms, Computer Architecture
Bachelor of Engineering in Computer Science & Engineering | Osmania University, Hyderabad, India   *June 2018*
Key Courses: Data Structures, Distributed Systems, Artificial Intelligence, Operating Systems, OOPS using JAVA, DBMS, Computer Networks

Certifications And Awards

- Certified as Full Stack Developer by StackRoute, an NIIT Initiative | April 2019
- Certificate of Merit in Bigdata and Hadoop competition by RoboKart in association with IIT Bombay | October 2017
- Appreciation letter from MVSR Engineering College, Osmania University for a project(A Survey Web Application) of Departmental NBA Inspection | December 2017