

VIKAS PRAJAPATI

Software Engineer

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Passionate professional with a strong background in Software Engineering, Project Execution, focused on leveraging expertise in Software Engineering Development to drive successful outcomes and contribute to organizational growth in targeted functional areas and industries.



Core Competencies

Software Engineering

Solution Designing

Requirement Gathering & Analysis

Software Development Lifecycle

Process Excellence

Risk Management

Agile/ Scrum Methodology

CI/CD Methodologies



Education

- Diploma in Big Data Analytics from Centre for Development of Advanced Computing (C-DAC) in 2023
- Bachelor of Technology in Electronics and Communication Engineering from Dr. Ram Manohar Lohia Avadh University in 2022



Technical Skills

- Python
- C/C++, CMake, Static/Dynamic Linking
- Linux, Shell Scripting
- Apache Spark, Apache Kafka
- SQL and NoSQL, MySQL, PostgreSQL, MongoDB



Profile Summary

- A results-driven software engineer and web developer with over 6 months of experience in designing and implementing scalable **deep learning pipelines** using Python, leveraging expertise in **model development, conversion**, and reporting to drive seamless project delivery.
- Leveraged extensive C++ development expertise, coupled with in-depth knowledge of **dynamic and static linking**, to deliver high-performance applications, complemented by proficiency in **Microsoft Visual Studio** and **CMake script** development, ensuring efficient project management and build processes.
- Committed to treating data as a strategic asset** and fostering a culture that prioritizes data quality, resulting in the creation of reusable data products pivotal in enhancing organizational-wide data capabilities, particularly in the deep learning domain.
- Skilled in optimizing deep learning models through expertise in **ONNX** format conversion and **INT8** format quantization, utilizing various **calibration methods, activation functions**, and **weight optimization techniques** to achieve efficient and accurate model deployment.
- Skilled in **Agile Project Management Methodologies** with skills in directing project teams and maintaining high-quality deliverables within time and budgetary parameters.
- Proven capabilities in building relationship** with clients & partners for evolving strategic vision, driving change, building services roadmap, infusing new ideas, implementing emerging technologies for the long run, and taking enterprise system performance & productivity to next level.



Work Experience

From Oct 2023 to April 2024 | MulticoreWare Inc | Chennai
As Software Engineer

Key Result Areas:

- Spearheading the design, development, deployment, and management ensuring high availability, security, and scalability.
- Collaborating seamlessly with cross-functional teams to gather project requirements, define clear objectives, and establish project timelines, streamlining development processes and reducing time-to-market.
- Designing and developing critical software modules, showcasing expertise in system design, and implementing cutting-edge development frameworks.
- Utilized expertise in deep learning models, including **Max ViT**, **YOLOv5**, and **Mask R-CNN**, to design and develop innovative image classification, object detection, and image segmentation solutions, demonstrating proficiency in applying cutting-edge algorithms to drive business value.
- Collaborating in the development of multiple **Python Flask** and **Fast API** services aligning with intricate business rules. These services supported the backend of a significant Angular-based web application for a prominent client on the east coast.

- Flask & Django, Rest API, Fast API
- Bitbucket & AWS Cloud, GitHub, Jira Ticket
- Docker, Kubernetes
- CNN, NLP, LLM
- NumPy, Tensor, Pandas, Matplotlib, Seaborn, PyTorch, Torchvision Models



Personal Details

Date of Birth: 19th Nov. 1998
Languages: English & Hindi
Address: Noida, India

- Successfully utilized the **AI Model Efficiency Toolkit (AIMET)** to quantize deep learning models, achieving significant improvements in performance and efficiency, and demonstrating expertise in understanding and optimizing complex model architectures for seamless deployment in production environments.
- Communicating project status update to various project partners, including team members and executives, synthesizing a multitude of issues into a clear, concise, and focused message.
- Conducting comprehensive code development, providing constructive feedback to enforce best practices in code quality, maintainability, and consistency. Offered mentorship to junior developers, fostering a culture of continuous improvement.
- Troubleshooting and resolving complex technical issues, ensuring system stability, and optimizing performance consistently.
- Educating and coaching team on Agile methodology to achieve quality handover within time and cost guidelines.