

Jaya Vinay Namgiri

Senior Software Engineer, Reseacher, Developer, Full Stack Web Engineer, Data Scientist, Generative AI Engineer

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Hands-on experience in software engineering with expertise in end-to-end implementation of applications, including the full software development lifecycle (SDLC). Skilled in designing, developing, deploying, and maintaining scalable and high-performance systems, ensuring reliability, security, and efficiency.

Education

- SRM University** Amaravathi, India
Bachelor of Technology - Computer Science Engineering; CGPA: 9.11 *July 2018 - June 2022*
Courses: Python, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases, Object Oriented Programming, Graph Theory
- Sarada Junior College** Vijayawada, India
Board of Intermediate Education, Andhra Pradesh ; CGPA: 9.3 *June 2016 - May 2018*
Courses: Mathematics, Chemistry, Physics
- Nirmala High School** Vijayawada, India
Andhra Pradesh Board of Secondary Education; CGPA: 9.3 *May 2016*

Skills Summary

- Languages:** Python, Java, JavaScript, Swift, SQL, Bash, TypeScript, Kotlin
- Frameworks:** Scikit, Angular, NodeJS, React, Springboot, TensorFlow, Keras, Django, Flask, Express, SwiftUI, Pytorch
- Tools:** Docker, GIT, PostgreSQL, MySQL, Kubernetes, SQLite
- Platforms:** AWS, Azure, GCP, IBM Cloud, Linux, Web, Windows, Rasperry, Android
- Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

Experience

- ServiceNow Software Development** Hyderabad, India
Software Engineer (Full-time) *Aug 2025 - Present*
 - Digital Employee Experience (DEX) & Remediation:** Architected and deployed automated remedial actions for Windows and macOS endpoints using ServiceNow Agents, significantly reducing Mean Time to Repair (MTTR) for end-user device issues.
 - Cross-Platform Scripting & Tooling:** Developed robust check definitions and health monitoring scripts using Ruby to identify device anomalies; utilized ServiceNow UI Builder to create intuitive interfaces for managing device health metrics.
 - Bulk Remote Management & Automation:** Engineered scalable bulk remediation workflows for remote devices, leveraging ServiceNow Agent Client Collector (ACC) to execute large-scale configuration changes and security patches simultaneously.
 - ITSM Ecosystem & Plugin Development:** Contributed to the core ITSM suite by developing custom plugins and extending platform functionality, ensuring seamless integration between incident management and automated device discovery.
- Samsung Research and Development** Benguluru, India
Senior Software Developer (Full-time) *Sept 2023 - Aug 2025*
 - Android UI Design and Development:** Designed and developed Android UIs for various apps, ensuring a seamless user experience
 - Machine Learning Research for Smartphone Security:** Researched machine learning to improve smartphone security, implementing advancements to directly protect users
 - Project Contributions:** Contributed to diverse projects, including Passkey Sharing research, Knox Dashboard development, Application User Interface design and implementation, network API integration, Demonstrated strong system understanding by analyzing Samsung On-Device Blockchain synchronization operations
 - Exploration of App Vulnerabilities and Generative AI:** Explored app background anomalies, and developed messages chat production service using Generative AI.
- Software Engineer (Full-time)* *Aug 2022 - Sept 2023*
 - Data Science and Analytical Dashboard Development :** Contributed to preparing an analytical dashboard on the Apache Superset platform, building numerous SQL queries for data visualization and business intelligence.
 - Machine Learning model preparation :** Developed machine learning models for customer churn predictions using the Samsung dataset, leveraging statistical analysis and predictive modeling techniques.

Projects

- **Machine Learning Algorithms Visualization Tool Platform:** Developed a web interface to visualize famous Machine Learning Algorithms, besides explaining the importance of hyper-parameter tuning using Scikit-learn, Plotly, JavaScript.
- **Inventory Management System:** Interface built to manage all inventory managements, which work as a stand-alone GUI tool having features like exporting the data into Excel and available in different themes using PyQt : Landing page : <https://jays-inventory-management-system.netlify.app/>
- **Algorithms Visualization Tool:** A desktop tool developed to visualize various algorithms such as sorting, pathfinding, and searching, built using PyQt. Provides users with a clear and interactive visual representation of algorithms. Landing Page: <https://jays-algorithms-visualiser-pyqt.netlify.app>
- **Smart Mirror:** Engineered a smart mirror using a Raspberry Pi, integrating modules such as Spotify Music Sync, a news headline bar, push notifications, and a personal calendar widget for real-time updates on assignments and important notifications. Landing Page: <https://jayvinayportfolio.netlify.app/html/pages/smartmirror>
- **Sudoku Solver Application:** Created a Graphical User Interface tool in executable format to solve sudoku puzzles efficiently. Users can easily download the application and utilize its capabilities on their system. Developed using Python, Tkinter, and PyInstaller. Landing page: <https://jay-sudoku-solver.netlify.app>
- **Netflix Clone Full Stack Application:** Developed a full stack Netflix clone application with a comprehensive understanding of Netflix's functionality. The front-end was developed using React, and the back-end was built with Node.js and MongoDB as the database
- **Food Delivery Multi-App System:** Developed a food delivery suite consisting of three apps: delivery agent, restaurant owner, and end-user apps. Used Retrofit for REST API communication and Jetpack Compose for a modern, responsive UI. Demonstrated a full-cycle app ecosystem development.
- **Anomaly Detection in Android:** Implemented Mahalanobis distance-based anomaly detection in an Android app. Added features for CSV upload, column selection, and real-time visualization of results in a tabbed interface, enabling effective anomaly identification.
- **LangChain PDF Query System:** Integrated LangChain with LLMs to enable context-aware querying of PDF documents. Developed an intuitive interface for uploading files and extracting precise answers to user queries.

Research and Publications

- **Published Chapter: Introduction to Unsupervised Learning in Bio Informatics:** In the book named "Data Analytics in Bioinformatics: A Machine Learning Perspective", got accepted by Wiley Publications
- **Published research paper titled "Reconstructing Noised Images of Fashion-MNIST Dataset Using Autoencoders":** Published in IEEE: highlighting contributions to image processing and machine learning by demonstrating the effectiveness of autoencoders in restoring clarity to corrupted images
- **Published research paper on "Mudras and Yoga Positions Detection and Recognition":** Utilizing YOLOv7 and Faster R-CNN: advancing the field of computer vision by enabling accurate detection and recognition of yoga poses and hand gestures at IEEE 2023 7th International Conference

Certifications and Awards

- **Samsung Excellence Award - May, 2024:** Awarded for outstanding performance and contributions in the field of technology and innovation at Samsung.
- **Google Cloud Facilitator and Architecting with Google Cloud:** Completed Google Cloud facilitator program and earned badges along with completion of Google Cloud architecture course, focusing on designing and deploying scalable, resilient, and secure applications. Certificate link
- **Stanford University - Online Machine Learning:** Successfully completed by covering fundamental concepts and practical applications of machine learning. Certificate link
- **Deep Learning.AI Specialization in Coursera:** Acquired in-depth knowledge on neural networks, CNNs, RNNs, Hyperparameter tuning, Regularization and Optimization. Certificate link
- **Microsoft Azure AI-900:** Earned the Microsoft Azure AI certification, demonstrating a solid understanding of AI and machine learning concepts on the Azure platform. Certificate link
- **Udemy Android Certification:** Completed a comprehensive Android development course, showcasing proficiency in building and deploying Android applications. Certificate link
- **Udemy AWS Certified Cloud Practitioner:** Gained foundational knowledge of AWS cloud services and their applications in real-world scenarios. Certificate link
- **Tensorflow 2 Lite and Keras Deep Learning in Android:** Acquired skills to implement and deploy TensorFlow and Keras models on Android devices for machine learning tasks.
- **Udemy Software Architecture:** Specialized in designing and structuring software solutions efficiently and effectively, focusing on scalability and maintainability.
- **Oracle Certification:** Demonstrated expertise in Oracle technologies, confirming a solid understanding of database management and deployment.
- **Azure Cloud Computing fundamentals:** Completed the AZ-900 Microsoft Azure Fundamentals certification, gaining a solid understanding of core cloud concepts, Azure services, cloud computing models, and security practices. Demonstrated proficiency in foundational Azure cloud skills. Certificate link