

# DIVYAMSHU MANDADI

Email: [divyamshumandadi@gmail.com](mailto:divyamshumandadi@gmail.com) | +1 (551) 554-2882 | [LinkedIn](#) | [GitHub](#) | [Portfolio](#) | San Francisco, CA

## SUMMARY

Experienced software engineer with 2 years of hands-on expertise in developing and maintaining robust and scalable applications.

## SKILLS

**Backend Development:** Python, Java, C, REST APIs, Flask, Spring, Node.js, Express

**Frontend Development:** JavaScript, React Native, React, Angular, HTML, CSS, Bootstrap, Tailwind CSS

**Database and Big data Technologies:** MongoDB, MySQL, SQL Server, PostgreSQL, DynamoDB and Redis

**DevOps & Tools:** AWS, Docker, Kubernetes, Git, Jenkins, Terraform, Postman, Maven, Gradle, Azure, GCP

**Miscellaneous:** Pytest, CircleCI, Swagger, Kanban, Jira, Agile, Scrum

## EXPERIENCE

### NerdPine Solutions, USA

| Feb 2024 – Current

#### Software Engineer

- Designed and implemented an AI-powered document processing system using **Generative AI (Gen AI)** and **Large Language Models (LLMs)** to automate data extraction and processing from various document types.
- Developed an **OCR automation** solution using **Machine Learning (ML)** and **Computer Vision** techniques to extract text and data from scanned documents, achieving high accuracy and efficiency.
- Implemented an **Intelligent Document Processing (IDP)** system that leverages **Natural Language Processing (NLP)** and LLMs to extract insights and automate workflows from complex documents.
- Developed and deployed highly scalable financial apps using Python, Java and Spring Boot, resulting in a 20% increase in transaction volume and a 10% reduction in average transaction processing time.
- Led the migration of legacy financial systems to modern cloud-based solutions on AWS, reducing operational costs by 18% and improving system reliability by 20%, measured by a 99.9% SLA.
- Developed machine learning based predictive model using **Support Vector Machine algorithm** for better understanding of the reported financial data.

### HHN Foundation, INDIA

| March 2020 – Jan 2022

#### Software Developer

- Led the team of 3 to develop web apps on **AWS** using Python that establish payment funnels and manage customers, achieving an increase in user engagement by delivering high-quality, scalable solutions.
- Implemented responsive UI designs with HTML5, CSS3, JavaScript and React, enhancing user experience with modern, intuitive interfaces.
- Implemented **Jenkins-based CI/CD pipelines**, employing requests and Pytest for API testing, resulting in a 40% decrease in issue resolution time and enabling production deployment within 10 minutes.
- Optimized payment processing by implementing **Redis caching with a master-slave setup**, reducing pre-validation time for improved system responsiveness by 20%

## PROJECTS

### End-to-End AWS Database Migration

- Executed an advanced database migration demo using AWS **Database Migration Service (DMS)** to migrate a self-managed MariaDB database and web application (WordPress) from on-premises to AWS, involving VPC peering and EC2-to-RDS migration for improved scalability and management.
- Provisioned and configured **AWS infrastructure (EC2, RDS, VPC)** to facilitate seamless migration of web applications and databases, ensuring high availability and reduced operational costs post-migration.
- Led the database cutover process using AWS DMS, ensuring smooth transition with minimal downtime while migrating from a self-managed EC2 MariaDB setup to a fully managed RDS solution.

### Smart Task Organizer

- Constructed a real-time web application for Multi-User Task Management, seamlessly integrating user authentication and optimising data interactions while maintaining **OpenAPI Specification using Swagger**. Established and managed **CI/CD pipelines** for multi-container **Docker** applications in Azure, utilising Azure DevOps Organization, Container Registry, and **Container** Instances to streamline deployment processes and enhance operational efficiency.

## EDUCATION

- Master of Science in Software Engineering, GPA: 3.7/4.0**  
*Stevens Institute of Technology, NJ, USA - Provost Master's Scholarship*
- Bachelor of Technology in Computer Science & Engineering**  
*Osmania University, India*

Jan 2024

May 2019