

# Maheedhar Rao Govada

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## SUMMARY

Results-driven Software Engineer with a strong foundation in backend architecture, system design, and cloud-native development. Proven track record in designing scalable, resilient, and secure applications using **Node.js**, **Django**, and **PostgreSQL**. Adept at leading automation initiatives and modernizing legacy systems to improve operational health, reduce costs, and increase engineering efficiency. Passionate about engineering excellence, **CI/CD** best practices, and clean code.

## PROFESSIONAL EXPERIENCE

### Software Engineer 2 at Pathway Catalyst Partners.

May'24 - Present

- Spearheaded the development of a comprehensive **Django**-based application for assessing lender eligibility based on detailed underwriting inputs from user financial statements, providing accurate lender identification and a streamlined selection process.
- Architected and led development** of a scalable Node.js-based deal dispatch system hosted on a custom Linux server, **replacing Zapier integrations** and eliminating third-party costs, resulting in **\$500+ monthly savings** and improved system **resilience and maintainability**.
- Constructed a robust backend with **MySQL** to manage daily operational data and efficiently log email interactions via **Gmail API** through the **Node application**, complemented by **PostgreSQL** for high-powered analytics and strategic data management.
- Designed and deployed** an intelligent email classification bot integrating Gmail APIs and a custom LLM to **automate decline message parsing**, extract lender details, and **dynamically update** Streak CRM via API. This **automated 75% of CRM workflows**, improving data accuracy and operational efficiency.
- Classified results are stored in a **Supabase-hosted** database, which also captures 100% of live deal submissions through a web portal for centralized tracking and future reference.
- Led end-to-end development** of dynamic reporting tools using PostgreSQL and MySQL to generate **actionable analytics** on deal flow, approval/decline rates, and lender behavior. These reports enabled cross-team visibility and **data-driven decision-making**, supporting internal operations with **CI/CD-integrated dashboards**.

### Software development engineer at UOGEI, USA

Jun'23-Apr'24

- Spearheaded** the design and deployment of a secure, **scalable** internal web application using React, Express, and Oracle DB with JWT-based auth. The solution enhanced internal workflows and was architected for **modular, future-proof expansion**.
- Deployed containerized app infrastructure on **AWS using Docker and Ansible**, automating config for 20+ clients. Integrated with Git and Selenium for continuous testing, contributing to **engineering efficiency, CI/CD health, and zero-downtime deployment pipelines**.
- Optimized performance, achieving fast response times which is less than 7 milliseconds and efficient resource utilization, created comprehensive documentation and user manuals, and conducted training sessions, using Jira for updates and task assignments.

### Python developer at Defence Research and development organization (DRDO), India.

Sep'17-Nov'17

- Assessed **global variables**, identifying over 15 complexity and maintenance challenges, and designed strategies that enhanced maintainability by 30%.
- Diagnosed and refactored concurrency issues in a legacy Python system, implementing thread-safe architecture and synchronization strategies that reduced data corruption incidents by 40%, improved system stability by 35%, and boosted response times by 15%.

## EDUCATION

Master of Science in New Jersey Institute of Technology

Jan'22-May '24

Bachelor of Science in Computer Science, Jawaharlal Nehru Technological University

Aug '15-May '19

## TECHNICAL SKILLS

**Programming Languages:** Python | Java | JavaScript | SQL

**Databases:** MySQL | Oracle | SQL Server | Postgres | No-SQL

**Web Technologies & Frameworks:** HTML | XML | CSS | Angular | ReactJS | Restful Web Services | Django

**Tools & others:** Docker | Kubernetes | Apache Kafka | Git | Linux | PowerShell Scripting | Bash Shell Scripting | Jenkins | Visual Studio | Eclipse IDE | Postman | Ansible | Airflow | Grafana | Hyper-V | VMware

**Cloud Technologies:** AWS, Azure

## Certifications

- AZ900(Microsoft azure) fundamentals, CCNA, ITIL 4 Foundation, ITSM Foundation, IIT-Delhi certificate on chatbot development using transformers in 2017

## Projects

### Credit sure using Node.js

- Architected** a hybrid underwriting engine in Java and Node.js to simulate portfolio-level risk using Plaid-ingested merchant data. The system calculated credit exposure and default probabilities with **modular architecture and scalable APIs**, improving risk transparency for lenders.