

# Yeswanth Chandrasekhar

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## Skills

**Backend and APIs:** Go, Java (Spring Boot), Python, REST API design, microservices, OpenAPI Swagger, JWT, GraphQL, TestNG  
**Cloud and DevOps:** AWS (EC2, Lambda, API Gateway, S3, RDS), Oracle Cloud, Terraform, Docker, Kubernetes, GitHub Actions, Jenkins  
**Databases and Messaging:** MySQL, PostgreSQL, MongoDB, Redis, Kafka, SQS  
**Monitoring and Tools:** Datadog, Prometheus, Grafana, Git, Linux, CI/CD pipelines  
**Programming Languages:** Go, Java, Python, SQL, JavaScript, TypeScript

## Experience

### Software Developer, Backend | Community Dreams Foundation, Sebring, Florida - Remote Aug 2025 - Present

- Contributed to the Funding and Reporting System project by developing Spring Boot microservices and normalized PostgreSQL schemas, delivering over 10 REST endpoints for authentication and reporting features.
- Designed the underlying data storage scheme and integrated it with AWS RDS for relational data and S3 for report archiving, enabling reliable data persistence, automated backups, and seamless retrieval for analytics.
- Developed and integrated JWT-based authentication, implementing input validation and secure token handling to ensure reliable access control and improve API performance by about 5%.
- Collaborated with three cross-functional teams to design OpenAPI specifications and perform contract testing, cutting API integration errors during staging validation by 30% across four release cycles.

### Software QA Engineer | Synchronoss Technologies (Client: Verizon Cloud), Bengaluru, India Jul 2022 - Jul 2023

- Developed automation modules and backend validation tools in Java (TestNG) and Spring Boot, collaborating with developers to improve API reliability and reduce post-release defects by about 20%.
- Supported 35+ production and pre-production releases on Bamboo CI/CD with smoke and regression runs, build log review, and rapid root cause isolation that reduced release turnaround time by approximately 25%.
- Dockerized the automation framework as a portable image reused across 3 environments, cutting QA setup time by 40% and accelerating SDN release validation.
- Assisted the development team in testing and stabilizing Kubernetes-based infrastructure, helping transition 20+ microservices from QA to production with minimal downtime and zero rollback incidents.
- Resolved 50+ Fortify and Nexus IQ findings, suppressing false positives and tracking remediation in Jira to maintain 100% compliance with Verizon's internal security policies.
- Collaborated with the Machine Learning team on testing analytics-driven features, contributing to data refinement processes that improved feature performance and boosted model result accuracy by 15%.
- Participated in daily stand-ups, sprint planning, backlog grooming, and Kanban reviews to set sprint goals and QA deliverables, achieving a 95% on-time testing rate.

### Cloud QA & DevOps Intern | TCR Innovation, Bengaluru, India - Remote Jan 2021 - Jul 2022

- Completed structured training in SOAP UI, BDD with Cucumber, shell scripting, and containerization with Docker and Kubernetes, and progressively applied these tools to automate QA validation and streamline deployments.
- Automated REST API validation pipelines in Jenkins and GitHub Actions, integrating Cucumber BDD and Python utilities to detect regressions earlier and increase release confidence by 25%.
- Designed and maintained Terraform modules for on-demand QA environments triggered on pull requests across 5+ microservices, boosting test isolation and increasing deployment reliability by 35%. Built Python utilities to inject synthetic S3 events into SQS queues, expanding test coverage by 20%.
- Refactored a Node.js data ingestion service by implementing CloudWatch metric logging and optimizing API event handling, improving backend observability and reducing runtime errors by 15%. Used Datadog APM to monitor Lambda performance and diagnose memory spikes, lowering function failures by 25%.
- Tracked bugs and enhancements in Jira and documented intern onboarding processes, cutting ramp-up time for new team members by 40%.

## Projects

### BookRec - Personalized Book Recommendation System | Go, Oracle Cloud MySQL, Docker

- Built a containerized Go backend with JWT authentication and Oracle Cloud MySQL, integrating a NoSQL cache for user sessions to enable secure, real-time book recommendations through RESTful APIs.
- Designed a SQL recommendation engine using Open Library data, optimizing relational queries to improve response latency by 25%.

### PromptSense - AI Prompt Engineering Tool | Python, Streamlit, Hugging Face Transformers

- Developed a personal prompt management tool with user authentication and persona-based prompt generation built on Hugging Face Transformers, enabling secure and customized AI experimentation.
- Containerized and deployed the Streamlit application on Streamlit Cloud, enabling secure multi-user access and improving prompt generation quality by approximately 60%.

## Education

### University of Texas at Dallas | Richardson, Texas

May 2025

Master of Science in Business Analytics and Artificial Intelligence (GPA: 3.52/4.0)

**Courses:** Database Systems and Design, Big Data, Applied Machine Learning, Predictive Analytics, Data Warehousing, Applied Econometrics and Time Series Analysis, Prescriptive Analytics

### BMS Institute of Technology and Management | Bengaluru, India

Jul 2022

Bachelor of Technology in Computer Science and Engineering

**Courses:** Data Structures and Algorithms, Software Engineering, Operating Systems, Computer Networks