

# ABHILASH PANNALA

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## SUMMARY

Software Engineer with 2+ years of experience developing scalable backend and full-stack systems for NCR's enterprise loyalty platform. Skilled in designing RESTful APIs, building microservices with Java and Node.js, and optimizing performance in high-traffic, cloud-based environments. Seeking a Software Engineer role to design robust architectures, enhance reliability, and deliver production-grade solutions.

## TECHNICAL SKILLS

- **Languages:** Java, Python, JavaScript, TypeScript, C
- **Frameworks & Libraries:** Spring Boot, React, React Native, Node.js, Django, FastAPI, Bootstrap
- **Databases:** PostgreSQL, MySQL, MongoDB, Redis, Oracle
- **API Technologies:** RESTful API Development, GraphQL, HTML, CSS, Tailwind CSS
- **Cloud & DevOps:** Google Cloud Platform (GCP), AWS, Docker, Jenkins CI/CD, Supabase, Firebase, Render
- **AI / ML:** GPT Integration, Prompt Engineering, Chatbase, Model Fine tuning (Scikit learn, Pandas, NumPy)
- **System Design:** Scalable microservices, API design, distributed systems, multi-threading
- **Testing & Tools:** Selenium, Cucumber, Gatling, BlazeMeter, JUnit
- **Others:** Product Development, Proficient in MS Office/Google Suites, Responsive Web Design

## WORK EXPERIENCE

### Software Engineer I | NCR Voyix | Jan 2022 – Dec 2023

- Progressed from Software Intern to Software Engineer within 5 months due to demonstrated skills and impactful contributions.
- Delivered 40+ of features on time, ensuring successful production deployments and onboarding of new customers.
- Contributed to an industry-leading multitenant customer loyalty solution, enhancing retail experiences with real-time offer evaluation, discounts, coupons, and loyalty point management at POS using Spring Boot, Node.js, GCP.
- Designed and developed scalable microservices leveraging Spring Boot, GCP, Node.js, Apache Beam, SQL, and NoSQL databases. Improved system throughput from hundreds to thousands of requests per second by identifying and resolving performance bottlenecks.
- Developed and managed cloud infrastructure and CI/CD pipelines with Google Cloud Platform tools (GKE, Cloud Run, Cloud Dataflow, Cloud Build) enabling seamless staged deployments.
- Refactored Java microservices to improve Sonar coverage from 85% to 92% and enhance reliability with 100+ unit and integration tests.
- Performed load and stress testing with Gatling and BlazeMeter, reducing response times by 20% and boosting scalability.
- Improved application reliability by resolving critical front-end UI defects with Selenium automation, implementing robust validation logic to ensure data integrity, and contributing technical documentation and strategic planning to align features with evolving business objectives.
- Developed and managed enterprise platforms, focusing on deployment pipelines, security, and quality monitoring for scalable software delivery. Automated infrastructure provisioning, configuration management, and support processes across all environments, ensuring consistency and reliability.

## EDUCATION

### Master of Information Technology & Management | Illinois Institute of Technology, Chicago, IL | Expected Dec 2025

**Relevant Coursework:** Operating Systems Security, Service-Oriented Architectures, Data Networks & Internet, Advanced Database Management, Project Management

Bachelors, Information Technology & Management | VCE, Hyderabad, India | Jun 2019 - Jul 2022 | GPA: 3.3 / 4.0

## PROJECTS

### Bookshelf – AI-Powered Book Discovery & Reading Assistant

**Live Demo:** bookshelf-lq5o.onrender.com

- Developed a secure full-stack book discovery app using FastAPI, Supabase, Google Auth and Google Books API, enabling users to search, save, and categorize books based on genres.
- Integrated Chatbase AI assistant for book summaries and recommendations, and implemented cloud-based logging & analytics for tracking user activity and performance.

### CampExplorer – Full-Stack Campground Review & Mapping Platform

**Live Demo:** campexplorer-1uxp.onrender.com

- Developed a dynamic campground listing and review platform using Node.js, Express, MongoDB, and EJS, featuring user authentication, CRUD operations, and photo uploads via Cloudinary.
- Implemented geolocation and interactive maps using MapTiler API, optimized error handling and deployment on Render, and ensured stability through clean architecture and robust error handling.