

# Manavendra Sen

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## Experience

### JPMorganChase

Feb 2025 – Present

Software Engineer II, Software Engineer I

Bengaluru, Karnataka

- Promoted to SDE II (top 10%) and recognized with JPMC Impact Award 2024 for driving client-focused engineering improvements.
- Architected resilient **Java Spring Boot** microservices, achieving **99.99% uptime** with multi-AZ Kubernetes deployment, ensuring zero major outages.
- Implemented critical workflow controls (Maker-Checker, Blind Rekey Validation) safeguarding high-value transactions (>\$10M+), reducing risk exposure and improving operational resilience.
- Prototyped scalable solutions with **Google AI Agent Kit**, **LLMs**, **Drools**, **State Machine**, **AWS S3**, and **MSK** to support platform modernization.
- Mentored 5+ engineers, leading sessions on development and AI best practices.

### JPMorganChase

Feb 2023 – Jan 2025

Software Engineer I

Bengaluru, Karnataka

- Rebuilt legacy FX system using **ReactJS UI**, **Java Spring Boot API**, **JUnit (Testing)**, and **RDBMS/SQL (IBM DB2)**, enhancing scalability and maintainability.
- Designed and deployed fault-tolerant cloud architecture, leveraging **Docker** and **Kubernetes**. Achieved cross-region failover and disaster recovery. Implemented logging and monitoring using **Prometheus**, **Grafana**, logging sidecar pattern with **Fluentd**, and the **ELK**.
- Automated workflows, **saving 10+ hours per week** across teams by creating internal automation tools, libraries and code generation utilities using **Python**, **Golang**
- Improved data retrieval performance for high-volume queries (30K+ rows) by over 99%, cutting response time from 5+ mins to <1 second, by implementing server-side caching using **Caffeine** and efficient key-based pagination, and gzip in transit.
- Created **React Native**, **Python FastAPI** app with **Razorpay** integration for an NGO as part of the Tech for Social Good initiative, capturing the entire waste collection and selling workflow with support for Kannada Localization.

## Projects

**Nexus - Networking with Data-Driven Surveys** | *NextJS, Typescript, Serverless, AWS ECS, AWS Lambda, Python, ML, sklearn*

- Nexus analyzes community/conference members responses on surveys and groups them together, enhancing user engagement and providing valuable connections. Utilized **React**, **Express.js**, **AWS Lambda**, **AWS ECR**, **AWS ECS**, **Redis**, **AWS API Gateway**, **Appwrite Serverless Auth** and **NoSQL DB**
- Github: [github.com/manavendrasen/nexus](https://github.com/manavendrasen/nexus), Blog: [blog.manavendrasen.com/nexus](https://blog.manavendrasen.com/nexus), Demo Video: [Youtube](#)

### All Projects

- Projects: [linkedin.com/in/manavendrasen/details/projects](https://www.linkedin.com/in/manavendrasen/details/projects)

## Technical Skills

**Certifications:** **AWS Certified Cloud Practitioner**

**Languages:** JavaScript, Typescript, Java, Golang, Python

**Technologies:** React.js, React Native, Java SpringBoot, Express.js, Node.js, AWS, Kubernetes, Docker, SQL, MongoDB, React Native, Linux

**Concepts:** Cloud Computing, REST API, Relational Database Management, Agile Methodology, SCRUM, Software Testing

## Education

**Manipal University Jaipur**

Aug 2019 – May 2023

B.Tech in Information Technology with Specialization in Data Science (**GPA: 9.55 / 10.00**)

Jaipur, Rajasthan

- **Achievements:** Academic Excellence Gold Medal Recipient - Highest CGPA in B.Tech (IT), 2x Scholarship Recipient