

Harshal Panpaliya

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SUMMARY

Full-Stack Software Engineer specializing in scalable web applications, microservices architectures, and real-time data pipelines (Airflow, Spark). Proficient in React, Node.js, Python (Django/Flask), and cloud platforms (AWS, GCP). Proven track record in API security (OAuth2/JWT), CI/CD automation, and performance optimization for large-scale systems.

EXPERIENCE

Python Developer | Pythonwise Inc, New York, NY

Jan 2025 – Mar 2025

- Developed a secure, cloud-native microservices platform for portfolio data management using **React.js** and **Flask** APIs, deployed via **Docker**, orchestrated with **Airflow**, and powered by **Spark** and **PostgreSQL** on AWS.
- Built RESTful APIs with **OAuth** authentication, ensuring full compliance with industry privacy and security standards.
- Leveraged **Redis** and **Kafka** for event-driven communication between services, building real-time dashboard visualizations that reduced system latency by 30%.

Full-Stack Developer | Marlabs, Piscataway, NJ

Feb 2024 – Jan 2025

- Designed and deployed a high-availability e-commerce platform with **React**, **Node.js**, **MongoDB**, **Express.js** and **GraphQL** APIs, achieving 25% faster page load times.
- Integrated Server-Sent Events (**SSE**) and **Socket.io** and optimized data fetching, reducing over-fetching by 40% and improving real-time interactions.
- Implemented containerization with **Docker** and CI/CD automation via **GitHub Actions** for seamless deployments.

Full-Stack Developer | Datalekt, Pune

Nov 2020 - Dec 2021

- Developed a prototype multi-tenant SaaS platform for hospitality businesses with modular microservices using **Node.js**, **React.js**, **MongoDB**, **Redis** and **BullMQ**.
- Built secure, role-based access control features (**RBAC**) and **GDPR**-compliant data handling processes for privacy-focused deployments.
- Developed containerized deployment strategy using **Docker** and **Kubernetes**, enabling both cloud-hosted and on-premises implementations across **AWS** and **GCP**.

Full-Stack Developer | Creative Core, Pune

Jan 2019 - Oct 2020

- Developed and optimized e-commerce web applications using **React** and **RESTful APIs**, optimizing backend **SQL** queries to improve application performance and data retrieval speed by 20%.
- Integrated **Kafka**-based event streaming within the **Spring Boot** microservices architecture to track user activity, powering real-time analytics dashboards and improving system scalability.

EDUCATION

Stevens Institute of Technology

Master of Science - Computer Science

Jan 2024

Savitribai Phule Pune University

Bachelor of Engineering - Computer Engineering

Dec 2019

SKILLS

Languages: JavaScript, TypeScript, Python, Java, C#, Rust, PHP, Bash

Frontend: React.js, Next.js, Angular, Redux, Tailwind CSS, Material UI, HTML5/CSS3

Backend & APIs: Node.js, Django, Flask, GraphQL, Express, Spring Boot, WebSocket, REST API design

Cloud & DevOps: AWS (EC2, S3, EKS, EMR), GCP, Azure, Docker, Kubernetes, Terraform, GitHub Actions, Jenkins

Databases & Big Data: PostgreSQL, MongoDB, Elasticsearch, Cassandra, Redis, Apache Spark, Airflow, Redshift

Testing & Security: Jest, Cypress, Playwright, Mocha, TDD, OAuth2, JWT, Passport.js

PROJECTS

AI & ChatGPT Trend Analysis on Reddit and 4chan

Jul 2023 – Dec 2023

- Built a real-time data pipeline using **Airflow**, Apache Spark, and AWS (EC2, S3) to ingest and process over 2M posts/comments, enabling AI-sentiment trend forecasting.

Walmart Invoice Exporter

May 2023 – Present

- Developed and published a JavaScript Chrome extension on the Chrome Web Store that enables Walmart users to export order histories to Excel, achieving 1,000+ active installs.