NIRALI MEHTA

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SUMMARY

Software Engineer with **4+ years** of experience building **cloud-native**, **microservices-based SaaS** and **enterprise applications** across **healthcare**, **education**, and **SaaS domains**, skilled in **full-stack development** (**Java, Python, Node.js, React.js, Redux, TypeScript**), **cloud deployment** (**AWS, GCP, Azure, Kubernetes, Terraform**), **API design**, **databases**, **CI/CD**, and **performance optimization** for **1,000+ users**.

PROFESSIONAL EXPERIENCE

Oregon State University   **OR, USA**
Cloud Computing Developer   **May 2025 – Present**

- **Engineered event-driven microservices** in **Python** and **R**, deployed in **Docker containers** and orchestrated with **Kubernetes**, automating **cloud workflows** and integrating with **AWS S3** and **Minio** across multiple environments.
- **Extended the FaaSr framework** to support **multi-language workflows (Python, R, Java)**, streamlining **deployment pipelines** with **GitHub Actions**, **AWS Lambda**, and **Apache OpenWhisk**.
- Designed and implemented **serverless cloud workflows** using the **FaaSr package**, **optimizing execution** of **R functions** and enabling **scalable processing** across diverse environments.

Oregon State University   **OR, USA**
Identity and Access Management Assistant   **February 2024 – March 2025**

- **Migrated ITSM approval workflows** from **TeamDynamix** to **ServiceNow**, ensuring **seamless integration** and improved **process efficiency**.
- **Implemented OAuth 2.0** and **TLS-based identity validation** to strengthen **system security**, enhance **audit traceability**, and reduce **processing delays** for **200+ annual access requests**.
- **Automated user account lifecycle provisioning** by developing Python and Bash scripts to streamline onboarding and offboarding across faculty, staff, and student systems.
- **Eliminated 80+ repetitive manual steps** by replacing manual processes with scripted automation, significantly improving efficiency and accuracy.
- Developed and executed **unit and integration tests** for access workflows, improving reliability, **reducing system incidents by 14 per month**, and ensuring **stable operations** in student service platforms.

VersionX Innovations   **Bengaluru, India**
Software Developer   **January 2021 – April 2023**

- **Architected scalable SaaS front-end solutions** using **React.js** (Redux, Hooks), Angular, and TypeScript, enabling efficient development across multiple product modules.
- **Designed and delivered** a reusable component library that accelerated module delivery and improved maintainability.
- **Developed backend microservices** using **Node.js (Express.js)** and **Java (Spring Boot, Hibernate)** for 15+ **REST API endpoints**, improving **transaction stability** and overall **system performance**.
- **Integrated microservices** with **SQL** and **NoSQL databases** to ensure seamless **data flow** and **reliable system operations**.
- Optimized **REST API performance** by refining **backend queries** and **frontend fetch logic**, reducing average **response latency** for **1,000+ daily enterprise users**.
- Orchestrated **CI/CD pipelines** with **GitLab CI/CD**, embedding **Selenium-based automated testing workflows** to prevent over **25 regression defects** per **release cycle**.
- Deployed a **client-facing analytics dashboard** in **React.js**, processing **100+ daily inquiries** and reducing **case triage backlog** by over **2 hours per ticket**.
- Led **Agile sprints** and owned **end-to-end delivery** of **web applications**, completing projects **15% faster**, meeting **100% of milestones**, and mentoring **5+ junior developers** on **microservices architecture** and **secure coding practices**.

Cipla   **India**
Software Engineer   **July 2019 – December 2020**

- Programmed a **prescription workflow engine** using **Java Spring Boot** and **PostgreSQL**, deployed on **AWS Lambda** and **EC2**, streamlining drug compliance across **3 therapeutic lines** and eliminating **5 hours of manual review work daily**.

- Integrated **GraphQL APIs** to optimize data retrieval for dashboards, reducing over-fetching/under-fetching issues and boosting query performance by **30%**, which improved load times and increased adoption by **25% across distribution teams**.
- Implemented **Kafka-driven alerting microservices** in **Flask** with **MongoDB** and **AWS SNS**, enabling incident triage across **3 departments** and preventing an average of **9 missed escalations per month**.
- Designed and delivered interactive, **real-time dashboards** with **React.js, Bootstrap, and JavaScript (ES6+)**, partnering with design teams via **Figma** to produce **12 reusable components** adopted by **4 distribution centers**.
- Streamlined **CI/CD pipelines** with **Docker** and **GitHub Actions**, cutting manual release work by **10 hours weekly** and accelerating deployment frequency.
- Verified and debugged **REST APIs** via **Postman**, fixing schema mismatches and reclaiming **20 hours in regression testing** across **2 mission-critical pharmaceutical systems**.

PROJECTS

E-commerce Test Automation Framework
- Engineered an automation framework with Selenium to cover 50+ end-to-end UI workflows, including product search, cart, checkout, and payment, using modular and reusable test scripts.
- Constructed comprehensive API test suites validating 100+ REST endpoints and 20+ GraphQL queries/mutations, ensuring accuracy of backend services and data integrity.
- Optimized test execution by implementing data-driven testing and parallel runs across multiple browsers/environments via Selenium Grid and Pytest fixtures, cutting regression cycle time from hours to minutes.
- Deployed the framework into CI/CD pipelines (Jenkins/GitHub Actions), enabling fully automated regression suites to run on every build and release, accelerating delivery velocity.

Subscription Management
- Architected a full-stack subscription tracking platform with Angular, Firebase empowering users to securely oversee recurring expenses and eliminating the equivalent of 5 hours of manual tracking per user each month.
- Spearheaded the development of interactive dashboards with real-time analytics, enabling users to uncover spending trends and achieve measurable cost savings across multiple billing cycles.
- Crafted reusable Angular components and fine-tuned GraphQL queries, cutting API overhead by a quarter of previous load times and shortening release cycles from weeks to days.

TECHNICAL SKILLS

- **Programming Languages:** Java, C, C#, .NET Core, Python, JavaScript, Rust (exposure), R, SQL, HTML5, CSS3
- **Frameworks & Libraries:** Spring Boot, Hibernate, React.js, Redux, Angular, Node.js, Express.js, Flask, Bootstrap
- **Cloud & Container Platforms:** AWS (Lambda, EC2, S3, CodePipeline), Azure (Functions, Blob, Pipelines, DevOps, Networking, VPN/SSL/TCP-IP), Google Cloud Platform (GCP), Kubernetes, Helm, OpenShift
- **Distributed Systems & Architecture:** Microservices, Event-driven Design, Scalable & Reliable SaaS
- **Databases & Storage:** SQL Server, Oracle, PostgreSQL, MySQL, MongoDB, Cassandra, Cosmos DB, Firebase (Cloud Firestore), Elasticsearch
- **Caching & Performance:** Redis, Memcache
- **DevOps & CI/CD:** Docker, Jenkins, GitHub Actions, GitLab CI/CD, Azure Pipelines, Maven, Terraform
- **APIs & Integrations:** REST, GraphQL, Kafka, RabbitMQ, Swagger UI, Postman
- **Testing, QA & Automation:** JUnit, Mockito, MockMVC, Selenium, JMeter, Gatling, Postman, Dynatrace
- **Monitoring & Observability:** Prometheus, Grafana, AppDynamics, Splunk
- **Security:** OAuth 2.0, TLS, IAM, Secure Coding Practices, Cloud Security & Compliance Logging
- **Development Methodologies:** Agile, Scrum, Sprint Planning, Test-Driven Development (TDD)
- **Collaboration & Tools:** Jira, Trello, Asana, Figma, Visual Studio Code

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EDUCATION

Oregon State University   **Corvallis, OR**
Master of Engineering in Computer Science   September 2023 – March 2025

Jain University   **Bengaluru, India**
Bachelor of Technology in Information Science and Engineering   August 2016 – July 2020