

Sumit Gupta

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EDUCATION

- **University at Buffalo** Buffalo, NY
Master of Science in Computer Science; GPA: - 3.67 Aug 2024 – Dec 2025
- **National Institute of Technology** Jaipur, India
Bachelor of Engineering in Electronics and Communication; GPA: (7.66/10.0) Aug 2017 – July 2021

EXPERIENCE

- **miniOrange** Pune, India
Senior Software Engineer (IAM / SSO Platform) Jul 2021 – Jul 2024
 - Owned and maintained the company's core **SSO/IAM product** for **3+ years**, supporting enterprise authentication, federation, and identity lifecycle workflows in production.
 - Designed and implemented secure federation using **SAML 2.0**, **OAuth 2.0**, and **OIDC**; delivered multiple customer integrations as IdP/SP with attribute/claim mapping, certificates, and metadata management.
 - Added advanced auth-flow features including **PKCE** support for public clients, improving security for mobile/SPA integrations and preventing authorization-code interception.
 - Implemented and supported **SCIM 2.0 provisioning** (create/update/deactivate users, groups, entitlements), enabling automated identity lifecycle management across external SaaS applications.
 - Built and maintained **REST/SOAP web services** for IAM workflows (token issuance/validation, user lookup, policy checks, provisioning triggers) and integrated with downstream enterprise apps.
 - Collaborated with security, platform, and customer teams to meet enterprise controls (auditability, secure secrets handling, least privilege), and authored runbooks + integration documentation for client onboarding.
 - Troubleshoot complex IAM incidents in **Linux**-hosted environments: SSO redirect loops, clock skew, certificate rotation issues, token validation failures, and federation misconfigurations; reduced escalations through better monitoring and guardrails.
 - Worked with identity providers including **Okta**, **Auth0**, **AWS Cognito**, and **Ping**; guided customers through setup, testing, go-live, and post-go-live stabilization.
 - Managed IAM configuration/customization changes using **Git**-based workflows (branching, reviews, releases) and improved reliability via CI/CD + rollback-friendly deployments.
 - **Tech:** Java, JavaScript, OAuth2/OIDC, SAML, JWT, PKCE, SCIM, REST/SOAP, Linux, Git, Docker, AWS, Redis/Memcached.
- **ServiceNow** Hyderabad, India
Software Development Intern Jul 2020 – Nov 2020
 - Implemented platform enhancements using **JavaScript** (client) and **Java** (server) APIs and delivered UI improvements with **HTML/CSS**.
 - Built automated regression tests using **Selenium** and **JUnit** and collaborated in a **Scrum** team on iterative delivery.
 - **Tech:** Java, JavaScript, HTML5, CSS3, Selenium, JUnit.

PROJECTS

- **Radiant Clothing** [Link](#)
Built a full-stack e-commerce app using **React.js**, **Redux**, **GraphQL**, and **Firebase**. Implemented authentication with **Firebase Auth**, payments with **Stripe**, and scalable routing/state patterns (**React Router**, **Redux-Saga**). Deployed on a **VPS** and tested with **Jest/Enzyme**.
- **Multi-Tenant Customer Support Platform (Tickets + Knowledge Base)** [Link](#)
Developed a multi-tenant backend using **Spring Boot 3** and **PostgreSQL** with strict tenant isolation, **RBAC**, and **JWT + refresh tokens**. Implemented event-driven workflows via **Kafka + Outbox**, added **Redis** caching/throttling, **Postgres FTS** search, and **MinIO** attachment storage. Shipped with **Flyway**, **OpenAPI**, **OpenTelemetry**, **Testcontainers**, **Docker Compose**, and CI/CD on **GitHub Actions**.

- **FinCore - Event-Driven FinTech Microservices Platform** [Link](#)
Built an event-driven FinTech microservices system using **NestJS** and **Next.js** with API Gateway routing, **JWT/RBAC**, and **Kafka**-based communication. Implemented **Saga** transfers with **idempotency keys (Redis)** and retry-safe workflows. Designed an append-only **double-entry ledger** in **PostgreSQL** and a **Fraud** service with configurable rules. Added an ops UI (**Tailwind + shadcn/Radix**), **OpenAPI**, structured logging (**Pino**), **OpenTelemetry/Prometheus**, **Jest** tests, and **Docker Compose** orchestration with CI on **GitHub Actions**.
- **JavaFX Media Player** [Link](#)
Built a cross-platform media player using **JavaFX** and **Java 8** with playback controls, seeking, playlists, and drag-and-drop import. Followed the **MVC** pattern and optimized performance via profiling.
- **Real-time Chat Application** [Link](#)
Built a real-time chat app using **Node.js**, **Express**, and **Socket.io** with rooms, location sharing, and notifications. Used **Mustache.js** for templating and tested with **Mocha/Chai**.
- **Monster Mania** [Link](#)
Built a responsive **React.js** app that fetches external API data and supports fast search/filter using **React Hooks**.

CORE SKILLS

- **Protocols Federation:** SAML 2.0, OAuth 2.0, OpenID Connect (OIDC), JWT, PKCE, Token Exchange, JWK/JWKS, SCIM 2.0
- **SSO Identity:** Identity Federation, IdP/SP integrations, SSO troubleshooting, MFA integrations, session management, claims/attribute mapping, provisioning/deprovisioning
- **Platforms:** ForgeRock IDM (exposure/working knowledge), Okta, Auth0, AWS Cognito, Ping (PingFederate/PingOne concepts), Azure AD concepts
- **Engineering:** Java, JavaScript, Groovy (scripting/customization), REST/SOAP APIs, Webhooks, JSON/XML, Git, CI/CD, Linux admin
- **Security:** Least privilege, RBAC, secure token handling, audit logging, incident response, OWASP auth pitfalls