Nikhilesh Yadav

B.Tech in Computer Science and Engineering
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EXPERIENCE

•Senior Software Engineer *June 2024 – Present*
PersanaAI (YCW23) San Francisco, USA

- **Built multiple AI Agents**—including the flagship "Quantum Agent" (**20M+ requests, <6% error**) using OpenAI/-Claude APIs with RAG, API tool-use pipelines, and **orchestration via Temporal.io and BullMQ**.
- **Refactored Express monolith** into NestJS/Golang services with **rate limiting, caching, batching, and real-time streaming**; boosted throughput to **1K req/s**, cut costs by **20%**.
- **Created interactive spreadsheet UI, Dashboards, Live Tables** with React, Chakra UI, TailwindCSS; **live-editing, dynamic charts, and widgets**; **reduced load time from 5.43s to 1.78s (P99)** utilizing **socket.io**(websocket), SSE
- **Implemented full observability stack** (Grafana, Loki, Prometheus, OpenTelemetry). **Migrated from BullMQ to Temporal.io**, reducing dangling/failures tasks by **40%/15%**.
- **Led SOC 2 Type 1 certification (SPOC)**; Drove Type 2 SOC2 journey ; trained **4 engineers**, reviewed **50+ PRs**.
- **Tech Stack:** Node.js, Golang, NestJS, Next.js, React, Chakra UI, TailwindCSS, Redux, Zustand, PostgreSQL, Redis, MongoDB, Mongoose, Temporal.io, BullMQ, Docker, Kubernetes, Pulumi, AWS (Amazon Web Services), OpenAI

•Software Engineer *Dec 2022 – May 2024*
Fountane Inc. Minneapolis, USA

- **Led Parkpoolr** with direct client interaction; **reduced GCP costs by 30%**, mentored **2 interns**.
- **Built full-stack features** using Angular, React, Node.js, Golang, and **optimized GraphQL APIs**.
- **Migrated infra to Docker Swarm**; set up **CI/CD pipelines** and improved deployment speed.
- **Integrated SSO and RBAC** with Keycloak for internal dashboards.
- **Created Slack AI agent** with Asana, Calendar, Gmail, and Keka integrations.
- **Tech Stack:** Node.js, Golang, Angular, React, Hasura, GraphQL, Docker, Redis, GCP, GitLab CI/CD, Keycloak, Slack API

•Full Stack Developer (Intern → Engineer) *Jan 2021 – Nov 2022*
Pratilipi, 1DigitalStack.ai, MADPAT GmbH Germany, South Delhi, Bengaluru

- **Developed full-stack features** with React.js, AngularJS, Node.js, Python, PostgreSQL, Redis.
- **Migrated AngularJS to React.js**; introduced **rest-hooks, Joi validations, Husky/CI/CD upgrades**.
- **Built secure Credential Vault** (Keycloak, OAuth2.0, JWT). Identified **credential-leak vulnerabilities**.
- **Developed analytics pipelines** using Amplitude, increasing **app installs by 160%**.
- **Automated dev environments** with Docker, Bash scripts, and .devcontainer.

TECHNICAL SKILLS AND INTERESTS

Languages: JavaScript, TypeScript, Golang, C++, Python, SQL
Frontend: React.js, Vue.js, Angular, Chakra UI, TailwindCSS
Backend: Node.js, NestJS, Express.js, GraphQL, Hasura, OAuth2.0, JWT, REST, RabbitMQ
Infra/Tools: Docker, GitLab CI/CD, Redis, KafkaJS, Temporal.io, AWS, GCP
Databases: PostgreSQL, MongoDB
Monitoring & Analytics: Grafana, Prometheus, OpenTelemetry, Amplitude
Soft Skills: Mentoring, Ownership, Communication, Problem Solving

PROJECTS

• Quantum Agent – Enterprise AI Automation
PersanaAI, 2024

- **Handled 20M+ requests** with external integrations, and scalable orchestration. See Experience section.

• C++ REPL – Interactive Language Runtime, TCP Proxy Server
c-repl, tcp-proxy

- **Developed full C++ interpreter** with CLI and web REPL.
- **Built parsers** (PEG.js), integrated with GCC/GDB for **step-debugging**.
- Used IPC, React.js frontend, Node.js backend.
- **Built transparent TCP Proxy** in Node.js with connection logging and client authentication.
- Focused on **socket-level extensibility and debugging capabilities**.

EDUCATION

•Dr. A. P. J. Abdul Kalam Technical University *Aug 2017 – May 2021*
B.Tech in Computer Science and Engineering Lucknow, Uttar Pradesh

- Coursework: DSA, OS, CN, DBMS, Software Engineering, AI, Web Technologies