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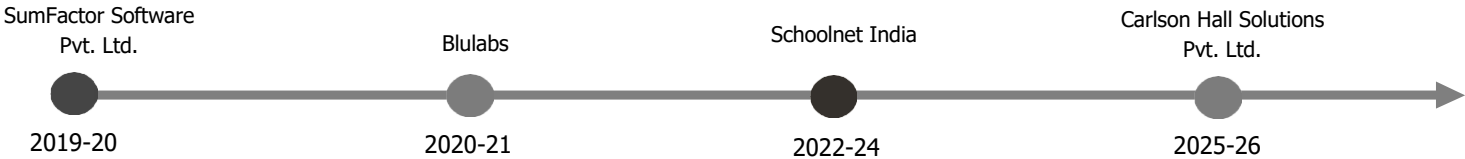
Senior Backend & Full-Stack Engineer | Python • FastAPI • Java • Node.js | AI/ML & Microservices

Targeting backend engineering opportunities to architect scalable, high-performance applications by leveraging expertise in Python, Java, Node.js, AI/LLM systems, microservices, cloud technologies, and secure API development.

PROFILE SUMMARY

- Backend & Full-Stack Engineering:** Bringing 7+ years of experience architecting and delivering scalable, production-grade applications across Cybersecurity, EdTech, and AI domains, leveraging Python, Java, Node.js, React, and microservices.
- AI-Driven Engineering:** Specializing in AI/LLM integration, RAG pipelines, prompt engineering, and intelligent automation, with hands-on expertise in OpenAI, Anthropic Claude, Groq/Llama, and AI-powered backend systems.
- Enterprise Platform Engineering:** Engineering high-throughput backend ecosystems supporting Fortune 500 clients and 500K+ users, with expertise in REST APIs, distributed systems, PostgreSQL, Redis, cloud infrastructure, and performance optimization.
- Performance & Engineering Excellence:** Proven track record of driving 40%+ reduction in analyst triage time, 38% backend performance improvement, 78% critical-path test coverage, 30% compute-cost optimization through architectural refinement, caching, automation, and CI/CD.
- Product Ownership & Technical Leadership:** Independently conceptualizing and shipping 3 AI/automation products while leading cross-functional engineering teams, translating complex business requirements into scalable, secure, and production-ready digital solutions.

CAREER TIMELINE



CORE COMPETENCIES

- Backend Architecture & System Design
- Microservices Architecture
- Performance Optimization & Scalability
- Scalable Application Development
- Enterprise Solution Engineering
- Cyber Risk & Compliance Automation
- AI-Driven Product Engineering
- Technical Leadership & Team Management

WORK EXPERIENCE

Senior Python Engineer | Carlson Hall Solutions Pvt. Ltd. | Remote (India) | Jul 2025 – Aug 2026

Key Roles and Responsibilities:

- Enterprise AI & Cyber Risk Engineering:** Spearheaded backend engineering for enterprise AI-driven cyber risk management platform serving Fortune 500 clients, enabling scalable risk analysis, compliance workflows, and findings prioritization across high-volume security datasets.
- Backend Services & Platform Development:** Architected and delivered Java Spring Boot and Python backend services, powering automated cyber risk analysis, compliance operations, and intelligent security findings prioritization.
- Compliance Automation & Control Monitoring:** Automated evidence-collection workflows for continuous control monitoring and developed compliance-framework cross walking logic supporting “assess once, map many” approach across multiple industry-standard security frameworks, reducing evidence-gathering cycles from weeks to hours.
- REST API & Performance Engineering:** Developed REST APIs consumed by executive risk dashboards and risk management modules, improving backend processing performance by 38%.
- Database & Application Optimization:** Optimized PostgreSQL query patterns and implemented Spring Boot caching strategies, reducing p95 API latency from 820ms to 180ms and enhancing platform responsiveness and scalability.

Key Highlights:

- Architected Python/FastAPI, Java/Spring Boot, and Node.js microservices, improving system scalability by 38%.
- Engineered LLM applications and RAG pipelines, accelerating AI-driven workflows by 40%+ and reducing manual effort by 40%

Tech Assistant Manager | Schoolnet India | Remote (Hyderabad) | Nov 2022 – Dec 2024

- Microservices Architecture & Platform Scalability:** Architected and shipped Node.js/Loopback microservices powering the core EdTech platform, supporting 500K+ students across 15+ state deployments with scalable and resilient backend capabilities.
- Engineering Leadership & Release Delivery:** Led cross-functional team of 8 engineers across 3 product squads, driving execution discipline and delivering 14 major releases on schedule over 2 years.

- ❖ **Developer Enablement & Knowledge Engineering:** Authored comprehensive API and developer onboarding documentation, streamlining knowledge transfer and reducing new-developer ramp-up time from 6 weeks to 2 weeks.
- ❖ **Quality Engineering & Production Reliability:** Engineered robust regression and integration test suites across critical workflows, strengthening release quality and reducing P1 production incidents by 60%.

Senior Node.js Developer | Blulabs | Remote (Mohali) | Nov 2020 – Nov 2021

- ❖ **API Performance Optimization:** Optimized Express.js API endpoints through query batching and Redis caching, reducing p95 response latency from 480ms to 120ms, delivering significantly improved backend responsiveness.
- ❖ **Enterprise Client & Solution Engineering:** Partnered directly with 6+ enterprise clients to scope system architectures, translate discovery requirements into actionable technical solutions, and drive them through to production-grade feature delivery.
- ❖ **Automated Quality Engineering:** Architected and implemented an automated testing suite that achieved 78% coverage across critical application paths, strengthening release confidence and regression resilience.
- ❖ **Production Reliability & Release Assurance:** Established robust automated validation mechanisms that prevented 30+ regressions before release, enhancing software stability, deployment quality, and overall engineering velocity.

Full Stack Developer | SumFactor Software Pvt. Ltd. | Chandigarh | Nov 2019 – Oct 2020

- ❖ **Backend Performance Optimization & Cost Engineering:** Profiled and refactored Node.js performance bottlenecks through DB query batching and connection pooling, reducing compute costs by 30% for a platform supporting 50K daily active users.
- ❖ **CI/CD & Release Automation:** Architected and implemented an automated CI/CD pipeline, streamlining deployment workflows, reducing the release cycle by 25%, and eliminating 10+ hours/week of manual deployment effort.
- ❖ **Scalable Engineering & Operational Efficiency:** Strengthened backend scalability and deployment efficiency by combining performance tuning, resource optimization, and DevOps automation, improving system reliability, enabling cost-effective operations at 50K DAU scale.

PROJECTS

AgentFlow — Multi-Agent Orchestration Dashboard | Private Project | React · FastAPI · Python

- ❖ Architected and developed a full-stack multi-agent orchestration dashboard integrating Claude Code CLI, Codex CLI, and local LLM runtimes as peer agents, enabling centralized agent lifecycle management through CLI subprocesses.
- ❖ Implemented real-time output streaming and task queue orchestration, facilitating concurrent agent execution, lifecycle control, and seamless monitoring of distributed AI workloads.

GapRadar — AI-Powered Market Trend Scanner | Private Project | Python · Groq/Llama · Reddit · Hacker News · Product Hunt APIs

- ❖ Developed an AI-powered CLI tool that mined **emerging market gaps** using DuckDuckGo search and LLM-driven synthesis across Reddit, Hacker News, and Product Hunt intelligence.
- ❖ Leveraged **Groq/Llama for zero-cost inference** to synthesize multi-source signals and generate ranked opportunity reports highlighting high-potential market trends.

IndicConvert — Indian-Language PDF → Word Converter | Python · FastAPI · LibreOffice Headless | indicconvert.onrender.com

- ❖ Engineered and deployed an **open-source PDF-to-Word conversion platform** supporting formatting preservation across **22 Indian scripts**, including Devanagari, Tamil, Bengali, and Punjabi.
- ❖ Delivered a production-ready solution for **government and enterprise multilingual document workflows**, enabling reliable conversion of Indian-language documents at scale.

EDUCATION

- **2022:** Master of Science, Software Engineering — Lovely Professional University, Punjab
- **2020:** Bachelor of Science — Lovely Professional University, Punjab

IT SKILLS

Category	Skills / Technologies
Development & Architecture	Python, Java, JavaScript, Typescript, SQL, FastAPI, Spring Boot, Node.js, Express, LoopBack, Django, REST APIs, Microservices
Frontend, AI & Data	React, Next.js, Angular, HTML/CSS, Tailwind CSS, OpenAI API, Anthropic Claude API, Groq/Llama, RAG Pipelines, Prompt Engineering, PostgreSQL, MongoDB, Firebase, Redis
Cloud, DevOps & Security	AWS, GCP, Docker, Git, GitHub Actions, CI/CD, OWASP Top 10, Secure API Design, Cyber Risk Workflows, Compliance Automation