

# NAUMAN NAEEM

Lahore, 54000

+92 333 4699960 | [nnauman1991@gmail.com](mailto:nnauman1991@gmail.com)

Portfolio: [naumanportfolio.com](http://naumanportfolio.com)

LinkedIn: [linkedin.com/in/nauman-naeem-7281286a](https://linkedin.com/in/nauman-naeem-7281286a)

GitHub: [github.com/nauman1991](https://github.com/nauman1991)

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## EXECUTIVE SUMMARY

Strategic Engineering Leader with 9+ years of experience building and scaling high-performing engineering organizations while driving digital transformation through enterprise-scale application development and distributed systems architecture. Expert in leading and mentoring teams of 40+ engineers across multiple product lines and technology domains. Specialized in establishing engineering excellence through technical leadership, mentorship programs, and scalable development processes. Architected 25+ production systems serving 50,000+ users with 99.9% uptime using cloud-native solutions (AWS, GCP) and modern technology stacks (Node.js, Python, React). Deep expertise in AI/ML implementation (TensorFlow, PyTorch, GPT-4, LangChain) across healthcare, fintech, and enterprise automation domains. Proven track record of aligning technical roadmaps with business objectives, maintaining 98% client retention and driving \$500K+ revenue growth. Established DevOps culture and CI/CD pipelines improving deployment frequency by 300% while ensuring HIPAA/PCI compliance. Champion of engineering best practices including code quality standards, architecture reviews, and data-driven decision making. Filed patents for AI-powered workflow automation systems handling millions of requests with sub-100ms latency.

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## PROFESSIONAL EXPERIENCE

**Head of Engineering, TOP CASH JEWELLERY PTE. LTD (Remote)**

January 2022 - Present

- Architected and delivered 25+ production platforms across AI, analytics, healthcare, and enterprise automation serving 50,000+ users with 99.9% uptime
- Built and led high-performing engineering organization of 30+ developers across multiple projects, establishing scalable development processes, technical standards, and best practices
- Drove engineering excellence through implementation of code review processes, architectural design patterns, and technical documentation standards

- Established comprehensive technical roadmap aligned with business objectives, maintaining 98% client retention through C-level stakeholder management
  - Designed and implemented microservices architectures using containerization (Docker/Kubernetes), API gateways, and cloud-native patterns across AWS and GCP
  - Spearheaded recruitment and talent development initiatives including technical interviews, mentorship programs, and skill development frameworks that reduced time-to-productivity by 40%
  - Implemented DevOps culture and CI/CD pipelines using Jenkins and GitHub Actions, improving deployment frequency by 300% and reducing production incidents by 65%
  - Optimized engineering operations and resource allocation, reducing infrastructure costs by 35% while maintaining system performance and reliability
  - Established engineering metrics and KPIs (deployment frequency, lead time, MTTR) enabling data-driven decision making and continuous improvement
  - Led architecture review board ensuring technical decisions aligned with scalability, security, and maintainability requirements
  - Championed adoption of modern engineering practices including test-driven development, pair programming, and automated testing achieving 85% code coverage
  - Drove technical innovation through evaluation and integration of emerging technologies (AI/ML, serverless architectures, real-time systems)
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### **Lead Software Engineer, MediQ Healthcare Platform (Islamabad)**

June 2021 - January 2022

- Led development of telehealth platform handling 1,000+ daily consultations with secure video streaming and intelligent scheduling
  - Managed 15-person engineering team implementing agile workflows that reduced delivery time by 30% and improved sprint velocity
  - Developed HIPAA-compliant systems with end-to-end encryption, secure data storage, and comprehensive audit logging
  - Established CI/CD pipelines enabling zero-downtime deployments, reducing production incidents by 60%
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### **Senior Software Engineer, Allomate Solutions (Lahore)**

October 2020 - May 2021

- Directed 6-person development team through 5 successful platform launches with established architecture standards and coding guidelines
- Architected scalable AWS/GCP cloud environments reducing client setup time from weeks to days (60% faster deployment)
- Maintained 99.9% system uptime through proactive monitoring, performance optimization, and incident response procedures

- Created comprehensive technical documentation standards reducing support queries by 35%
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### **Software Engineer, 3s Solutions (Lahore)**

February 2017 - September 2020

- Delivered 15+ web applications using PHP/JavaScript achieving 50% performance improvements through code optimization
  - Maintained strong client relationships ensuring technical solutions aligned with business objectives and requirements
  - Implemented modular development practices and reusable component libraries increasing team velocity by 40%
  - Built custom CMS platforms reducing third-party tool dependency and licensing costs
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## **TECHNICAL SKILLS**

### **Leadership & Management:**

Engineering Team Leadership, Technical Mentorship, Agile/Scrum Leadership, Sprint Planning, Performance Management, Recruitment & Hiring, Cross-functional Team Collaboration, Stakeholder Management, Technical Roadmap Planning, Budget & Resource Allocation

### **Architecture & System Design:**

Microservices Architecture, Distributed Systems, Cloud-Native Architecture, System Scalability Design, High-Availability Systems, Event-Driven Architecture, Domain-Driven Design (DDD), API Design (REST, GraphQL, gRPC), Database Architecture, Caching Strategies

### **Programming Languages:**

Python, JavaScript, TypeScript, Java, PHP, Ruby, Bash, Go

### **Frontend Technologies:**

React, Vue.js, Angular, Svelte, Next.js, Redux, Material-UI, Tailwind CSS, Responsive Design, Progressive Web Apps (PWA)

### **Backend Technologies:**

Node.js, Express, NestJS, Django, Flask, FastAPI, Laravel, Ruby on Rails, Spring Boot, Microservices Frameworks

### **AI/ML Technologies:**

TensorFlow, PyTorch, Scikit-learn, Hugging Face, LangChain, OpenAI API, GPT-4, Gemini, Claude API, NLP, Computer Vision, RAG Systems, Model Fine-tuning, MLOps

**Cloud Platforms & Services:**

AWS (EC2, S3, Lambda, RDS, CloudFormation, ECS, EKS, CloudWatch, API Gateway), GCP (Compute Engine, Cloud Functions, Cloud Run, BigQuery), Azure, DigitalOcean, Serverless Architecture

**DevOps & Infrastructure:**

Docker, Kubernetes, Jenkins, GitHub Actions, GitLab CI, Terraform, Ansible, Infrastructure as Code (IaC), Linux Administration, NGINX, Apache, Load Balancing, Auto-scaling, Monitoring & Alerting

**Databases & Data Management:**

SQL, PostgreSQL, MySQL, SQL Server, MongoDB, Redis, Firebase, Elasticsearch, Cassandra, Database Optimization, Query Performance Tuning, Data Migration Strategies

**Development Tools & Practices:**

Git, GitHub, GitLab, Bitbucket, JIRA, Confluence, Slack, Notion, Code Review, Test-Driven Development (TDD), Continuous Integration/Continuous Deployment (CI/CD), Version Control Strategies

**Security & Compliance:**

OAuth 2.0, JWT, Web Security Best Practices, HIPAA Compliance, PCI-DSS, GDPR, Security Auditing, Penetration Testing Coordination, Encryption (AES, RSA), SSL/TLS Configuration

**Monitoring & Observability:**

Prometheus, Grafana, ELK Stack (Elasticsearch, Logstash, Kibana), New Relic, Datadog, Application Performance Monitoring (APM), Log Management, Error Tracking, SLA/SLO Definition

**Technical Concepts & Methodologies:**

System Architecture Design, Technical Documentation, API Versioning, WebSockets, WebRTC, Message Queues (RabbitMQ, Kafka), Service Mesh, Blue-Green Deployment, Canary Releases, Disaster Recovery Planning, Technical Debt Management

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## EDUCATION

**Bachelor of Science in Computer Science & Information Technology**

Preston University, Lahore

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