UMER KHAN

SENIOR SOLUTIONS DEVELOPER

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Backend Systems Engineer with 6+ years of experience building scalable enterprise platforms, workflow automation systems, and high-performance backend architectures across finance, logistics, ERP, and operational business domains.
Experienced in designing modular backend systems, asynchronous processing pipelines, OCR-driven automation workflows, transactional processing systems, and real-time operational platforms using Python, Django, React, Redis, Kubernetes, and cloud infrastructure technologies. Built and deployed production-grade enterprise applications supporting over 10,000+ users and processing more than $1M+ in operational transactions. Strong experience in concurrent task orchestration, distributed workflow processing, infrastructure deployment, caching optimization, webhook-driven systems, and backend reliability engineering.

KEY ACHIEVEMENTS

- Delivered 25+ production-grade applications across fintech, ERP, and e-commerce ecosystems.
- Built AI-powered invoice processing system (Python + Django + AI) reducing manual processing time by 60%.
- Designed and implemented enterprise ERP integration systems, improving operational efficiency by up to 40%.
- Architected scalable backend systems deployed on AWS achieving 99.9% uptime.
- Led cross-functional teams of 3-6 developers, improving delivery speed and code quality.
- Built and integrated REST, SOAP, and GraphQL APIs across enterprise platforms.
- Developed automation pipelines for invoice, order, and financial data processing.

SKILLS

BACKEND ENGINEERING

- Python
- Django
- Django REST Framework (DRF)
- FastAPI
- Flask
- PHP
- Node.js
- Express.js
- REST APIs
- GraphQL
- SOAP APIs
- Webhooks
- API Development
- API Integration
- Backend Development
- Enterprise Application Development
- Server-side Development

SECURITY

- Secure Software Development
- API Security
- Authentication
- Authorization
- Role-Based Access Control (RBAC)
- Input Validation
- Data Validation
- Secure API Development

EXPERIENCE

Panni Management Corp — Senior AI Engineer
Canada (Remote) | 2023 - Present

- Led end-to-end development of 15+ custom enterprise applications using Python and MERN stack technologies, improving client operational efficiency by up to 40%.
- Architected and deployed scalable cloud infrastructure on AWS (EC2, ELB, S3), ensuring 99.9% uptime and high availability.
- Designed and integrated REST, SOAP, and GraphQL APIs across enterprise systems and third-party services.
- Developed an AI-powered invoice processing system using Django and Tesseract OCR, reducing manual processing time by 60%.
- Implemented intelligent document processing and OCR pipelines to automate invoice data extraction and financial workflows.
- Optimized backend performance, automated business processes, and integrated AI-powered tools to improve operational efficiency.
- Mentored junior developers and established code quality standards, improving team productivity and delivery.
- Served as Development Lead for multi-client projects, overseeing technical architecture, implementation, and end-to-end delivery.
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AIMVIZ Pvt Ltd — Senior Software Engineer | 2021 - 2023

- Designed and developed scalable backend and full-stack applications using Python, Django, React, Node.js, PHP, and modern web technologies for enterprise and customer-facing solutions.
- Architected modular backend systems, enterprise applications, and workflow automation platforms supporting scalable business operations and digital transformation initiatives.
- Developed secure REST, SOAP, and GraphQL APIs, integrating ERP systems, third-party services, cloud platforms, and business-critical applications.
- Engineered asynchronous workflows, event-driven architectures, background processing systems, and automation pipelines to improve scalability, performance, and operational efficiency.
- Designed, optimized, and maintained relational database schemas, SQL queries, indexing strategies, and data models for high-performance enterprise applications.
- Built reusable backend services, API layers, and software components following clean architecture, SOLID principles, and scalable software engineering practices.
- Implemented Redis-based caching, query optimization, session management, and performance tuning strategies to reduce latency and improve application responsiveness.
- Developed secure authentication, authorization, role-based access control (RBAC), API security, and data validation mechanisms across enterprise applications.
- Collaborated with cross-functional engineering teams, product managers, designers, and international stakeholders to deliver scalable, production-ready software solutions using Agile methodologies.
- Assisted with cloud deployments, Docker containerization, Linux server administration, infrastructure configuration, CI/CD pipelines, and production environment management.
- Participated in system architecture, technical design, code reviews, debugging, performance optimization, and backend reliability initiatives for enterprise-scale applications.
- Integrated business workflows through webhooks, event-driven messaging, API orchestration, and third-party platform integrations to automate operational processes.

DISTRIBUTED SYSTEMS & ARCHITECTURE

- Software Architecture
- System Architecture
- System Design
- Distributed Systems
- Distributed Architecture
- Microservices
- Event-Driven Architecture
- Service-Oriented Architecture (SOA)
- Modular Architecture
- Enterprise Software
- Workflow Automation
- High Availability
- Fault Tolerance
- Scalability
- Performance Optimization

DATABASES & CACHING

- PostgreSQL
- MySQL
- MongoDB
- Redis
- Database Design
- Database Schema Design
- SQL
- Query Optimization
- Database Optimization
- Indexing
- Redis Caching
- Distributed Caching
- Cache Optimization
- Rate Limiting
- Distributed Locking

CONCURRENCY & PERFORMANCE

- Asynchronous Programming
- Concurrent Processing
- Background Task Processing
- Worker Queues
- Task Scheduling
- Task Orchestration
- Queue Processing
- Atomic Operations
- Transaction Management
- Retry Mechanisms

CLOUD & DEVOPS

- Amazon Web Services (AWS)
- EC2
- S3
- Elastic Load Balancer (ELB)
- Docker
- Kubernetes
- Linux
- Nginx
- CI/CD
- Production Deployments
- Infrastructure Management
- Containerization

AI & AUTOMATION

- Artificial Intelligence
- AI Integration
- AI-powered Applications
- Machine Learning Integration
- Large Language Models (LLMs)
- OpenAI API
- OCR
- Computer Vision
- Intelligent Document Processing
- Workflow Automation
- Business Process Automation
- Prompt Engineering

S2F Lab Pvt Ltd — Software Engineer 2019 - 2020

- Developed backend functionality and business application features for enterprise web platforms and CMS-based systems.
- Assisted in API development, backend architecture implementation, and database schema design for operational applications.
- Built reusable frontend and backend components improving development maintainability and delivery efficiency.
- Worked on third-party integrations and backend business workflows for client-focused web applications.
- Collaborated with development teams on scalable web application implementation and operational feature development.

EDUCATION

Bachelor of Science in Computer Science - University of London

- Focused on software engineering, backend systems, algorithms, databases, and distributed application development
- Applied academic concepts directly within production enterprise systems and automation-focused software platforms
- Developed practical expertise in scalable backend architecture, workflow automation, and operational system design alongside professional engineering experience

SKILLS

TOOLS & ENGINEERING PRACTICES

- Git
- GitHub
- Postman
- Agile Methodologies
- Debugging
- Code Reviews
- Logging & Monitoring
- Technical Documentation
- SOLID Principles
- Clean Architecture