

# Animesh Pandey

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## SUMMARY

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As a Senior Software Engineer with 7 years of experience, I specialise in PHP, Python, and Node.js, with a strong focus on backend development and building scalable, high-performance applications. I have a solid background in designing testable, extensible systems, optimising APIs, and applying SOLID principles and TDD methodologies. With expertise in MySQL, PostgreSQL, and Docker, I excel at creating robust CI/CD pipelines and maintaining high development standards through code reviews and adherence to best practices. I am passionate about mentoring junior developers, solving complex technical challenges, and continuously learning new technologies such as DevOps tools and CMS platforms. I also explore emerging technologies through personal projects, including LLM integration with LangChain and vector databases, to build AI-powered applications.

## SKILLS

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### Programming Languages & Frameworks:

- **Languages:** TypeScript, Python, JavaScript, PHP, SQL
- **Frameworks:** Fast API, Vue.js, React, Next.js, React Native, Laravel, Lumen, Symfony, Drupal, Flask
- **API Development:** RESTful, GraphQL, 3rd-Party Integrations
- **AI & ML:** LLM Integration (OpenAI, Gemini, Ollama), LangChain, Vector Databases (FAISS, Qdrant), Prompt Engineering, Vertex AI
- **Microservices & Architecture:** Monolith and Microservices architecture

### Tools & Technologies:

- **Databases:** MySQL, PostgreSQL, MongoDB, Elasticsearch
- **Infrastructure:** Docker, Kubernetes, AWS, RabbitMQ, Digital Ocean
- **Version Control & CI/CD:** Git, PHPUnit, CI/CD Pipelines, unit testing
- **Agile Development:** SCRUM methodologies, Code Reviews, Testing (Unit/Integration)

## EXPERIENCE

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### Sr. Full Stack Developer

Nov 2025- Present, UK

#### ASquared | B Corp™ | Digital Product Agency

- Architect and deliver full-stack solutions using React/Next.js, TypeScript, FastAPI, PostgreSQL/Supabase, and React Native (Expo) for cross-platform web and mobile applications
- Design scalable backend architectures, APIs, and data models with a focus on reliability, maintainability, and performance
- Develop mobile applications using React Native, targeting tablet and mobile devices, with emphasis on usability, performance, and production readiness
- Build secure authentication systems, role-based access controls, and production-grade REST APIs
- Establish engineering standards, including Git workflows, testing strategies, code quality practices, and CI/CD pipelines
- Containerise applications with Docker and manage cloud deployments using modern DevOps practices
- Integrate multiple third-party services and external APIs, ensuring fault tolerance, performance, and security
- Collaborate directly with clients and stakeholders to translate requirements into technical designs, roadmaps, and deliverables
- Deliver projects from concept through production release, ensuring milestones are met on time and within scope
- Owned delivery of multiple client projects, ensuring timelines, quality, and performance standards were consistently met

**Sr. Full Stack Developer (Contract)**  
**2025, USA**  
**Mercor**

**May 2025- Sep**

- Built and maintained Docker environments across multiple repositories, enabling consistent local development and production parity.
- Achieved 100% test coverage using pytest, covering edge cases, integration flows, and ensuring stability of AI pipelines.
- Authored clean, concise technical documentation for setup, testing, and deployment to enhance team collaboration and onboarding.
- Tested AI agents in Cursor, evaluating code suggestions for correctness, usability, and explanation quality, ensuring agents met production-readiness standards.

**Sr. Full Stack Developer**  
**Red Airship**

**July 2022 - July 2024, Singapore**

- Led end-to-end delivery across multiple projects, owning architecture decisions, timelines, and code quality while mentoring developers and collaborating directly with stakeholders.
- Worked closely with cross-functional teams to design and implement microservice architectures using Python, PHP, Vue, React, and TypeScript.
- Handled upgrading dependencies across major frameworks (Next.js, React, Drupal, Vue) to ensure long-term maintainability, security, and compatibility.
- Mentored junior engineers, conducted training sessions, and guided best coding practices.
- Played an active role in hiring by conducting interviews, reviewing technical assessments, and evaluating candidates to build a strong development team.
- Enhanced database queries and UI components to improve application efficiency, ensuring an optimal user experience.
- Conducted code reviews and implemented best practices like clean code, testing (unit/integration), and agile methodologies to maintain high-quality development standards.
- Collaborated on project requirements and development lifecycle, ensuring smooth client interactions and alignment with business goals.
- Reduced deployment time from 1 hour to 5 minutes by implementing CI/CD pipelines.
- Managed AWS infrastructure by deploying applications on EC2, configuring RDS for database management, using S3 for storage, and leveraging CodeCommit for version control and production deployments.

**Sr. Full Stack Developer**  
**Hazesoft**

**March 2020 - July 2022, Baneshwor**

- Led backend development with a focus on PHP, Python and MySQL, ensuring high scalability and performance.
- Reduced API response time from 10s to 500ms by optimising SQL queries and implementing caching (Redis, Elasticsearch).
- Developed and optimised microservices architecture using Docker, delivering innovative marketing solutions.
- Led the shift from monolithic to microservices, boosting performance and efficiency.
- Developed RESTful APIs and integrated third-party services for diverse client requirements, ensuring scalable software products.
- Played a key role in designing system architecture, implementing best practices like testing and code reviews.
- Conducted technical training sessions for junior developers to improve code quality and development processes.
- Assisted in hiring efforts, reviewed candidate submissions and participated in technical interviews.

**Full Stack Developer**  
**Karkhana**

**December 2017 - March 2020, Gyaneshwor**

- Contributed to both backend and frontend development using PHP, JavaScript, and SQL, delivering user-friendly applications in a fast-paced environment.
- Implemented robust, data-driven solutions to enhance user interaction and streamline content management systems.
- Worked closely with stakeholders to gather requirements and deliver efficient, scalable web applications.

**PROJECTS**

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**Joey AI (2026)**

- Developed an AI assistant that engages parents in structured conversations to collect symptoms and developmental information prior to clinical consultations.
- Built conversational workflows using LLMs and prompt engineering to guide symptom collection and adaptive questioning.

- Implemented safety guardrails and model armor policies to ensure safe, reliable interactions.
- Generated structured clinical summaries from parent conversations for review by healthcare professionals.

### **LLM-Powered Research Assistant (2025)**

- Created a vector-search-based academic assistant using LangChain, Ollama, Qdrant, and Elasticsearch, allowing users to query papers intelligently.
- Used Python for ingestion pipeline and API development, orchestrated AI tasks using LangChain.

### **ReelLife Conversations (Tablet App)**

- Led development of a tablet-first application for dementia care, delivering a cross-platform mobile solution using React Native (Expo)
- Architected a monorepo containing mobile, web, and backend services with shared components and workflows
- Built scalable backend services in TypeScript, designing APIs, authentication, and data models for secure multi-client use
- Delivered production-ready system end-to-end, from concept and architecture to deployment

### **AQUA Expeditions**

Senior Software Engineer • [www.aquaexpeditions.com/](http://www.aquaexpeditions.com/)

- Developed backend using PHP, Python and TypeScript, ensuring seamless functionality for the booking platform.
- Implemented CI/CD pipelines with Docker to ensure continuous integration and testing.

### **SSN**

Senior Software Engineer • [startupsg.gov.sg/](http://startupsg.gov.sg/)

- A platform strengthening Singapore's startup ecosystem and fostering tech collaborations.

### **Lugmety**

Api and backend Developer • [lugmety.com/](http://lugmety.com/)

- Built PHP and Python-based microservices for order management, optimising database interactions with MySQL.
- Used TDD to ensure high code quality, utilising PHPUnit and Pytest for continuous testing.

## **EDUCATION**

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### **Master's degree in Computer Science, 2025**

University of Wolverhampton • Wolverhampton, UK

### **Bachelor's degree in Computer Science and Information Technology, 2019**

St. Xavier's College • Maitighar, Kathmandu