

MOHAMMAD NABEEL

AI & Software Engineer

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SUMMARY

AI & Software Engineer with 3+ years of experience in applied AI, NLP, and Generative AI systems. Leading development of end-to-end AI pipelines, deploying LLM-powered solutions, and integrating scalable backends. Passionate about bridging AI research with real-world business impact.

WORK EXPERIENCE

Senior Software Engineer – AI Team (Lead)

FTech Solutions IT Department

June 2025 – Present

- Leading the AI division in developing and deploying enterprise-scale AI solutions integrated across organizational systems and platforms.
- Architecting and implementing advanced AI-driven applications, encompassing computer vision, NLP, and chatbot ecosystems to automate and enhance user experiences.
- Conducting cutting-edge R&D in Generative AI, Agentic AI, and LLMs, including fine-tuning, prompt optimization, and Retrieval-Augmented Generation (RAG) for production-level use cases.
- Designing and maintaining CI/CD pipelines for the secure, scalable, and reliable deployment of AI models and microservices.
- Overseeing security, scalability, and performance optimization of AI-powered platforms serving millions of users globally.
- Collaborating with stakeholders to design enterprise-level AI architectures for text, voice, and vision-based applications.
- Managing team operations, including task allocation, sprint planning, documentation, and technical reviews to ensure timely, high-quality deliverables.
- Coordinating with cross-functional engineering teams to integrate AI models into production-grade web and mobile applications.
- Driving innovation and adoption of emerging AI technologies to strengthen the organization's AI infrastructure and future capabilities.

Software Engineer – AI Team

FTech Solutions IT Department

Sep 2023 – June 2025

- Developed and deployed Dialogflow-based chatbots integrated with internal platforms and web applications, enhancing automation and user support efficiency.
- Engineered text-to-speech, speech-to-text, and voice cloning systems for real-time communication and accessibility solutions.
- Built AI-driven Django web applications and REST APIs for workflow automation, data analytics, and process optimization.
- Researched, fine-tuned, and implemented Large Language Model (LLM) integrations, including embeddings, prompt engineering, and model adaptation for organizational use cases.
- Led R&D initiatives exploring emerging AI technologies, frameworks, and deployment pipelines to drive continuous innovation.
- Collaborated with cross-functional teams to integrate AI modules into existing software ecosystems, ensuring scalability, stability, and seamless adoption.

Chatbot Developer (Virtual Internship)

Techvio Chats / Internee.pk

March 2023 – May 2023

- Designed and developed AI-powered conversational chatbots for business use cases using Natural Language Processing (NLP) frameworks and custom dialogue flows.
- Integrated bots with REST APIs and databases to enable context-aware and data-driven responses.
- Conducted performance testing, debugging, and optimization to improve response accuracy, reduce latency, and enhance overall user experience.
- Gained practical exposure to intent classification, entity recognition, and dialogue management for scalable chatbot solutions.

Lecturer – Computer Science

SAF Collegiate

Sep 2022 – Sep 2024

- Delivered comprehensive Computer Science lectures to grades 9–12, covering core topics including programming fundamentals, data structures, and theory of computation.
- Designed and conducted hands-on coding labs and interactive lessons, improving student engagement and conceptual understanding of algorithmic problem-solving.
- Developed custom lesson plans and assessment modules that enhanced learning outcomes and exam performance.
- Mentored students in practical applications of computing concepts, fostering analytical and programming skills for academic and competition success.

EDUCATION

Bachelors in Computer Science

Sir Syed University of Engineering & Technology

2021 – 2025

Intermediate in Computer Science

Govt. National College, Karachi, Pakistan

2019 – 2021

Matriculation in Computer Science

Sir Syed Children Academy, Karachi, Pakistan

2017 – 2019

Primary and Secondary Schooling

International School of Pakistan Kuwait, Khaitan, Kuwait

2004 – 2014

SKILLS

Artificial Intelligence & Machine Learning

- Generative AI, Agentic AI, Large Language Models (LLMs), Natural Language Processing (NLP)
- AI, Machine Learning, Deep Learning, Data Science
- Chatbots, Prompt Engineering, Vector Databases

Technical Skills

- **Programming & Frameworks:** Python (Django, Flask, FastAPI), HTML, CSS, JavaScript, Bootstrap, Tailwind CSS, LAMP Stack, MERN Stack, MERN Stack, .NET
- **Databases:** MySQL, SQLite, PostgreSQL, MongoDB, MS SQL Server
- **Cloud & DevOps:** AWS, Docker, CI/CD, Git & GitHub
- **Operating Systems:** Windows, Ubuntu, macOS

Professional & Leadership Skills

- Leadership, Management, Problem Solving, Critical Thinking, Communication, Public Speaking, Training

CERTIFICATIONS & COURSES

AI Chatbot Development – Saylani Mass IT Training

Comprehensive hands-on training in chatbot development, NLP, and AI-driven automation.

Data Science Track – DataCamp

Completed multiple courses covering Python for Data Science, data visualization, and machine learning fundamentals.

Cloud Solution Architect (AWS & Huawei) – Huawei Cloud

Gained expertise in cloud infrastructure design, deployment, and scalability principles across multi-cloud environments.

Microsoft Azure Certifications – Azure Networking & Azure Storage

Gained expertise in cloud infrastructure design, deployment, and scalability principles across multi-cloud environments.

JavaScript & TypeScript Crash Course – Saylani Mass IT Training

Developed strong programming fundamentals in modern JavaScript and TypeScript for full-stack applications.

Entrepreneurial Mindset – Institute of Business Administration (IBA) Karachi

Learned key concepts in innovation, leadership, and strategic decision-making for technology ventures.

CCNA: Introduction to Networks – Cisco Networking Academy

Acquired in-depth knowledge of networking fundamentals, routing, and switching concepts.