

MUHAMMAD ZEESHAN

Senior Full Stack & Generative AI Engineer

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PROFESSIONAL SUMMARY

Senior Full Stack & Generative AI Engineer with 7 years of experience in architecting and deploying scalable, high-performance software. Expertise in designing complex GenAI pipelines to automate real-world workflows, such as 3D virtual commerce. Proven leader of cross-functional teams delivering robust, low-latency APIs and pixel-perfect UIs for global brands. Committed to optimizing system health and scaling AWS/GCP infrastructure for data-intensive AI applications.

TECHNICAL SKILLS

- **Languages & Frameworks:** React.js, Next.js, TypeScript, JavaScript, Python, FastAPI, Nest.js, Node.js, Chakra UI, Tailwind CSS.
 - **AI & Image Processing:** LLMs (GPT-5, Gemini Pro, Gemma 3 12B), Prompt Engineering, GenAI Pipelines, OpenCV, Zero123Plus, Gemini Nano Banana Pro.
 - **Databases & State:** PostgreSQL, MySQL, MongoDB, SQL, Redis.
 - **Testing & Quality:** Jest, Supertest, Unit Testing, Performance Testing, Code Review.
 - **Tools & Infrastructure:** Docker, AWS, Google Cloud Platform (GCP), GitHub Actions, Terraforms, JIRA, Swagger/ReDoc, Figma.
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PROFESSIONAL EXPERIENCE

Emperia | Senior Software Engineer (Full-time)

Oct 2025 - Present

- Reduced production timelines by **90%** by eliminating the requirement for manual 3D product modeling; transitioned from a 48-hour modeling cycle to near-instantaneous AI-driven image placement.
- Engineered an advanced AI pipeline using Python, FastAPI, and OpenCV to seamlessly merge synthetic product views (generated via models like Zero123Plus and Gemini Nano Banana Pro) onto 4K panoramic backgrounds.
- Leveraged state-of-the-art LLMs, including GPT-5, Gemini Pro, and Gemma 3 12B, to craft AI-powered applications.
- Design and integrate scalable RESTful APIs with comprehensive Swagger/ReDoc documentation, handling deployment of the high-performance image processing architecture to AWS.
- Develop custom, reusable user interfaces using React, TypeScript, and Chakra UI to build immersive, gamified virtual commerce experiences for global brands.
- Take end-to-end ownership of features from technical design to production rollout, ensuring seamless frontend-backend integration.

Sawhorse Productions | Senior Software Engineer (Contract)

Apr 2024 - Sep 2025

- Delivered **high-performance**, gamified e-commerce experiences for global enterprise brands, ensuring 100% pixel-perfect UI fidelity across all devices.
- Directed end-to-end frontend deployment pipelines across AWS and Google Cloud, ensuring high performance, stability, and scalable delivery.
- Enforced rigorous code quality standards through comprehensive reviews, refactoring, and cross-functional collaboration with design and backend teams.
- Integrated third-party games and external services to create smooth, highly interactive user journeys.

VentureDive | Senior Software Engineer (Full-time)

Feb 2024 - Sep 2025

- Successfully reduced API response times to **under 1.5 seconds** and maintained 99.9% application uptime through background job queues.
- Led backend development and managed task assignments for a team building scalable systems using Nest.js, TypeScript, PostgreSQL, Docker, and AWS.
- Headed backend APIs, performance testing, and client demos for key **Government-led** and **Fintech** platforms.

Emperia | Software Engineer (Full-time)

Jan 2023 - Dec 2023

- Independently scaled the frontend architecture for a **global luxury retail leader** and a **top-tier professional services firm**, ensuring post-launch stability with zero critical downtime.
- Took full ownership of deploying applications to AWS (S3 and CloudFront), managing production bugs, and ensuring post-launch stability.

Afiniti | Senior Software Engineer (Full-time)

Nov 2019 - Oct 2022

- Advanced from Analyst to Senior Engineer by maintaining highly scalable application servers for an **enterprise-grade AI product**, improving reliability via 90%+ unit test coverage.
- Ensured application stability by writing unit tests via Jest and Supertest, resolving production bugs, and integrating third-party APIs.

Novatore Solutions | Associate Software Engineer (Full-time)

Jul 2019 - Oct 2019

- Served as Lead Full Stack Developer, building application servers with NodeJS/ExpressJS and front-end websites using ReactJS and AngularJS.

EDUCATION

- **Bachelor's Degree in Software Engineering (BSSE)** | COMSATS University | Sep 2015 - Jun 2019