

MUHAMMAD ZEESHAN

Senior Full Stack Engineer and Generative AI Engineer

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PROFESSIONAL SUMMARY

Senior Full Stack Engineer and Generative AI Engineer with 7 plus years of experience helping startup founders, SaaS teams, and enterprise brands take products from architecture through production. Has independently owned a subscription SaaS product end to end, spanning product, frontend, backend, AI, billing, and deployment, and layers production grade generative AI features, including RAG chatbots and LLM pipelines, onto existing platforms for enterprise clients. Also engineers GenAI pipelines that automate real world workflows, including 3D virtual commerce, for global enterprise brands. Has worked with teams across the United Kingdom, United States, United Arab Emirates, and Pakistan, and continues to build and ship independent products alongside full time engineering work.

TECHNICAL SKILLS

Languages and Frameworks, React.js, Next.js, TypeScript, JavaScript, Python, FastAPI, Nest.js, Node.js, Chakra UI, Tailwind CSS

Generative AI and LLM Engineering, GPT-5, Gemini Pro, Gemma 3 12B, RAG, LLM Pipelines, Prompt Engineering, GenAI Pipelines, OpenCV, Zero123Plus, Gemini Nano Banana Pro, Claude

Databases and State, PostgreSQL, MySQL, MongoDB, SQL, Redis, pgvector

Testing and Quality, Jest, Supertest, Unit Testing, Performance Testing, Code Review

Tools and Infrastructure, Docker, AWS, Google Cloud Platform, GitHub Actions, Terraform, JIRA, Swagger, ReDoc, Figma

PROFESSIONAL EXPERIENCE

Senior Software Engineer, Emperia *Oct 2025, Apr 2026*

- Reduced production timelines by 90 percent by eliminating manual 3D product modeling, moving from a 48 hour modeling cycle to near instantaneous AI driven image placement.
- Engineered an AI pipeline using Python, FastAPI, and OpenCV to merge synthetic product views generated with Zero123Plus and Gemini Nano Banana Pro onto 4K panoramic backgrounds.
- Applied large language models, including GPT-5, Gemini Pro, and Gemma 3 12B, to build AI powered applications for enterprise clients.
- Designed and integrated scalable RESTful APIs with full Swagger and ReDoc documentation, and deployed the image processing architecture to AWS.
- Built reusable user interfaces with React, TypeScript, and Chakra UI to deliver immersive, gamified virtual commerce experiences for global brands.
- Owned features end to end from technical design through production rollout, ensuring seamless frontend and backend integration.

Senior Software Engineer, Contract, Sawhorse Productions *Apr 2024, Sep 2025*

- Delivered high performance, gamified e commerce experiences for global enterprise brands, achieving 100 percent 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 code 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.

Senior Software Engineer, VentureDive *Feb 2024, Sep 2025*

- Reduced API response times to under 1.5 seconds and maintained 99.9 percent 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.
- Led backend APIs, performance testing, and client demos for government led and fintech platforms.

Software Engineer, Emperia *Jan 2023, Dec 2023*

- Independently scaled the frontend architecture for a global luxury retail leader and a top tier professional services firm, maintaining zero critical downtime after launch.
- Owned deployment of applications to AWS S3 and CloudFront, managed production bugs, and ensured post launch stability.

Senior Software Engineer, Afiniti *Nov 2019, Oct 2022*

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

Associate Software Engineer, Novatore Solutions *Jul 2019, Oct 2019*

- Served as Lead Full Stack Developer, building application servers with Node.js and Express.js and front end websites using React.js and Angular.js.

INDEPENDENT PROJECTS AND PORTFOLIO

Independently owns and ships SaaS products alongside full time engineering work, covering architecture, product, and deployment. Full portfolio available at mzeeshan.dev.

- TallyMsg, tallymsg.app, a subscription SaaS product owned end to end, covering architecture, frontend, backend, AI, billing, and deployment. An AI powered expense tracker that runs entirely through WhatsApp and Telegram with no app download, built with Fastify, Supabase, TypeScript, and a Next.js web dashboard, with support for text, photo, and voice expense logging.
- Developer Toolkit, developertoolkit.dev, a collection of developer productivity tools with a content and acquisition strategy built around organic search and developer communities.
- SageDesk, github.com/mzeeshanwahid/sagedesk, an open source RAG powered chatbot that can be layered onto any existing website. Runs entirely in the browser using WebAssembly with no API key required, with an optional backend mode for LLM synthesized answers, published as an npm package with support for React and Next.js.

EDUCATION

Bachelor's Degree in Software Engineering, BSSE, COMSATS University, Sep 2015, Jun 2019