

MOHAMMAD ABUBAKR

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SUMMARY

Senior Full-Stack Software Engineer with 5+ years of experience building and scaling systems to **100K+ daily active users** and driving **\$500K+** in revenue. Expert in React, TypeScript, Next.js, Node.js, and AWS, with a strong focus on system design, scalability, and secure coding practices. Currently pursuing an MSc in Software Engineering at the University of Turku, specialising in software security and AI-assisted development.

WORK EXPERIENCE

Senior Full-Stack Engineer

06/2025 – Present

Emma Systems

Espoo, Finland

- Architected enterprise-level full-stack systems using **React**, **TypeScript**, and **ShadCN**, establishing reusable design patterns that reduced component build time by **30%** across the team.
- Led structured code reviews across **5+ engineers**, enforcing secure coding standards and eliminating **100%** of flagged anti-patterns before production.
- Drove performance optimisation for large-scale data handling, improving dashboard rendering throughput by **40%** for thousands of concurrent records.
- Streamlined CI/CD deployments with **Docker**, cutting delivery timelines by **25%** and improving overall workflow efficiency.
- Defined and enforced system design standards across **3+ Agile squads**, improving sprint predictability and reducing production regressions by **35%**.

Senior Software Engineer

03/2023 – 04/2025

Devsinc

USA (Remote)

- Drove full-stack business development contributing to **\$500K** in revenue; onboarded and mentored **10+ engineers**, scaling team capacity and establishing engineering best practices.
- Partnered with stakeholders to refine technical requirements using Agile/Scrum methodology, increasing customer retention by **20%**.
- Led cross-functional teams across frontend, backend, and product, coordinating dev, QA, and deployment for seamless, on-time releases.
- Managed code reviews, system design audits, and CI/CD pipelines end-to-end, maintaining **99%+** platform reliability and reducing release friction by **30%**.

Software Engineer

03/2022 – 03/2023

Devsinc

USA (Remote)

- Built a real-time communication system with **Node.js** and **GraphQL**, handling **1M+ API requests** at **99.9% uptime**.
- Automated SaaS pipelines and agile delivery, boosting deployment speed by **40%** and feature velocity by **25%**.
- Adopted serverless architecture on **AWS**, cutting infrastructure costs by **30%** and production incidents by **50%**.

SKILLS

Languages: JavaScript, TypeScript, Python, C/C++, SQL, Solidity, HTML5

Frameworks / Libraries: React.js, Next.js, Node.js, GraphQL, REST API, GenAI / LLMs, Redux, Tailwind CSS

Tools & Platforms: AWS, Azure, Docker, Kubernetes, Git, Linux, PostgreSQL, Elasticsearch, Terraform, CI/CD

AI / ML: PyTorch, TensorFlow, LangChain, OpenAI API

Blockchain: Solidity, Ethers.js, Web3.js, Hardhat, IPFS, EVM, Smart Contracts

Methodologies: Agile, Scrum, System Design, Microservices, TDD, Code Review

PROJECTS

DMP – Airport Data Management Platform | *React, TypeScript, Node.js, PostgreSQL, REST API*

2023

- Built a fully functional airport operations platform featuring real-time flight add/edit management, resource allocation, and AOMS integration handling **1000s of daily flight records**.
- Engineered an intelligent alerts system for operational anomalies and resource conflicts, reducing response time to critical events by **60%**.
- Designed scalable data architecture supporting multi-airport resource management, improving operational efficiency by **40%**.

NFT Marketplace | *Solidity, Ethers.js, EVM, Hardhat, IPFS*

2023

- Executed **300+ transactions/sec** through optimised smart contract logic and efficient on-chain data structuring.

LEADERSHIP & ACHIEVEMENTS

Microsoft Student Ambassador

07/2019 – 06/2022

Microsoft

- Selected as the **first Student Ambassador** from my university, leading initiatives in cloud computing, blockchain, and AI.
- Conducted technical workshops and leadership seminars, growing community engagement across the campus.

SinceAI Hackathon – Top 3 & ElevenLabs AI Challenge Winner

2025

Business Turku

Turku, Finland

- Placed **top 3 out of 50+ teams**, winning the ElevenLabs AI challenge by building an AI-powered investor–startup matching platform using Supabase, Voyage AI, ElevenLabs, OpenAI, and Vercel.

EDUCATION

University of Turku

09/2024 – 09/2026

Master's in Software Engineering (GPA: 4.4 out of 5.0)

Turku, Finland