Natnael Alemseged Astaw

Senior Software Engineer

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Senior Software Engineer with 3+ years in full-stack, mobile, and AI development. Skilled in Flutter, Next.js, Python, AWS, and Docker. Proven leader in remote Agile teams, delivering scalable, high-performance solutions. AWS Certified Solutions Architect seeking remote senior roles.

Work Experience

Senior Software Engineer
HireArmada | Remote

Aug 2025 - Present

- Engineered AI-driven backends & full-stack features with Node.js/Express, FastAPI, Flutter, Next.js, Prisma, Composio, MCP, Supermemory, and Langflow.
- Built social discovery backend (10k+ DAU, 99.9 % uptime) with real-time matching & messaging.
- Created TikTok-style affirmation app + Gemini AI chat, widgets, personalized feeds; lifted retention 35 %.
- Developed bonus-based PM system with goal tracking, approvals, auto-payouts; cut processing 50 %.
- Built agentic workspace with Socket.io, Composio email AI, Supermemory+Langflow search, agent tagging; unified comms & research — boosted productivity 20 %.
- Built "Steve Jobs" AI via MCP + vector DB & prompt; enabled Delphi-style inspirational chats.

Senior Full-Stack Developer
Startup Agile | Atlanta, Georgia

Jan 2025 - Present

- Led full-stack web (Next.js / React) and mobile (React Native + Expo) development; delivered milestones 15 % ahead of schedule.
- Built React Native (Expo) apps with OTA updates, deep linking, Firebase push, Google maps, AI bot, and analytics; optimized performance, reducing load time 35 %.
- Optimized SSR/SEO (Next.js App Router) and mobile performance (hermetic bundles, lazy code-splitting); drove 50 %+ web traffic and 30 % Core Web Vitals improvement.
- Enforced TypeScript, tRPC, Prisma ORM, and Playwright + Detox testing; reduced prod bugs 65 %.

Software Engineer
DataCore Softwares | Fort Lauderdale, Florida

Jan 2025 - Jul 2025

- Built AI-powered storage services with Python, FastAPI, Docker, and self-hosted LLMs for real-time detection, recognition, transcription, summarization, and translation.
- Engineered FastAPI RESTful APIs, containerized with Docker, and deployed on AWS EKS; achieved <200 ms inference and 99.9 % uptime at peak load.
- Fine-tuned open-source LLMs (LLaMA 3, Mistral 7B and others) on custom data; optimized GPU inference via TensorRT + ECR images, cutting costs 12%.
- Built end-to-end ML pipelines: video frame extraction → segmentation → vector embedding → similarity search.
- Implemented CI/CD with GitHub Actions, Terraform IAC, and Prometheus/Grafana monitoring; automated rollbacks cut deployment failures by 60 %.
- Worked with secure remote development workflows (SSH bastion + VPC peering)

Senior Mobile Developer
Qemer Software Technologies | Addis Ababa

Jan 2024 - Jun 2025

- Led development of 10+ cross-platform mobile apps, accelerating delivery by 40%, and mentored engineers, reducing onboarding time by 30 %.
- Developed and launched 10+ cross-platform mobile apps with Flutter and Ionic.
- Optimized app performance, cutting load times by 50%.
- Mentored junior developers, reducing onboarding time by 30 %.

Core Skills

Dart, JavaScript, TypeScript, Python, Java, Kotlin, Flutter, React.js, Next.js, HTML/CSS, Tailwind CSS, FastAPI, Express.js, MySQL, PostgreSQL, SQLite, MongoDB, Firebase, Firestore, AWS, Docker, Docker Compose, Git, GitHub Actions, CodeMagic, Consul, n8n, Firecrawl, Algolia, CDNs

Education

Hawassa University

Jan 2018 - Dec 2022

Bachelor of Science Information Systems
GPA: 3.57

Certificates

AWS Certified Cloud Practitioner
Amazon Web Services (AWS)

Jan 2023

AWS Certified Solutions Architect - Associate
Amazon Web Services (AWS)

Jan 2024