Bereket Assefa

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PROFESSIONAL SUMMARY

Full Stack Software Engineer with 2+ years of experience delivering secure, scalable, and performance-optimized applications. Skilled in building microservices, modern front-end interfaces, and integrating cloud platforms. A proactive problem solver committed to innovation and continuous learning.

WORK EXPERIENCE

Software Engineer, Emocog   **Aug 2022 – Dec 2024**
- Collaborated on a scalable microservice-based backend for Emocog's German subsidiary, Cogthera, leveraging containerization and orchestration tools to achieve ISO 27001 compliance.
- Enhanced application security by integrating PostgreSQL-triggered audit logging, significantly reducing potential vulnerabilities.
- Optimized a real-time speech-to-text system using open source speech toolkit, VOSK, and gRPC, cutting resource usage and latency by over 50%—a critical improvement for our speech-based training application.
- Deployed a self-hosted Sentry instance for proactive error monitoring which improved system uptime and performance.
- Developed a real-time, server-rendered dashboard using FastAPI and WebSockets for microservice data visualization, with an integrated HTML, CSS, and JavaScript front-end—enabling support engineers to rapidly access vital patient information.
- Automated laboratory workflows with a Next.js and Firestore-based management system, replacing manual Excel processes with a fully automated solution that increased operational efficiency.

SKILLS

Programming Languages: Python (Proficient), TypeScript/JavaScript (Proficient), C/C++ (Familiar)
Technologies: Front-End (React, Next.js, React Native, HTML/CSS, Tailwind CSS); Back-End (FastAPI, Node.js, PostgreSQL, Redis, Firestore); DevOps & Cloud (Docker, Docker Compose, Kubernetes, AWS, GCP, Linux, Git)

EDUCATION

Bachelor Of Science in Computer Science and Electrical Engineering,
Korea Advanced Institute Of Science And Technology (KAIST)   **Feb 2022**
- KAIST Ranked #53 in QS World University Rankings 2025
- Relevant Coursework: Data Structure And Algorithms, Introduction to Algorithms, Introduction to Database, Introduction to Information Security, Introduction to Artificial Intelligence, Advanced Programming.

PROJECTS

Content Bake (content.codebake.io)   **Aug 2024 – Present**
- Built a modern, responsive platform for content creation and management using Next.js, NextAuth, shadcn/ui, and Tailwind CSS, improving editorial workflows and user experience while enforcing secure session management and role-based access control.
- Integrated Tiptap as a block-based what you see is what you get (WYSIWYG) editor, reducing content creation time and boosting user adoption through an intuitive editing interface.
- Leveraged Server Components, Server Actions, and Static Site Generation to optimize performance for content posts, resulting in faster load times and lower server costs.

Content Gen (github.com/rabberdabber/content-gen)   **Dec 2024 – Present**
- Engineered a FastAPI server for AI-driven content and image generation, integrating OpenAI, Flux, and MinIO (S3-compatible storage) to automate creative workflows and accelerate production.
- Implemented OAuth 2.0 for secure authorization, introduced Redis-based rate limiting to handle high-traffic scenarios, and deployed via Docker Compose and Coolify for rapid, consistent releases.