Tisloh Pam Tebe

FULLSTACK DEVELOPER

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SUMMARY

Software Engineer with 4+ years of experience building cloud-native applications and data platforms. Strong expertise in **Python (Flask, FastAPI, NumPy, Pandas)** and **Angula**r for frontend development. Skilled in **microservices**, **SQL** databases (**PostgreSQL**, **MySQL**), asynchronous programming (**Celery**, **asyncio**), and cloud-native deployment (**AWS**, **Docker**, **Kubernetes**)..

SKILLS

Programming & Framework: Python + ecosystem (Flask, FastAPI, NumPy, Pandas**)** Node.js, Angular, ReactJS, TypeScript, JavaScript, Express.js, GraphQL (Apollo Client), Kafka, C#, Ruby, PHP, SQL
Architecture: Microservices, REST, GraphQL, OOP Design Patterns, Async Programming (asyncio, Celery), Event-driven Systems
Cloud & DevOps: AWS (Lambda, EC2, S3, RDS, Kinesis, EKS), Azure (App Services, Blob Storage), Docker, Kubernetes, GitHub Actions, CI/CD, **Celery, asyncio, SOLID principles, OOP patterns, Terraform**
Database & Caching: PostgreSQL, MySQL, MongoDB, Redis, SQL Server, Snowflake
Testing & Tools: Jest, Playwright, React Testing Library, Vitest, Moq, NSubstitute, TDD, Agile, Code Reviews

EXPERIENCE

MERCOR   Remote
AI Benchmarker   April 2024 – October 2024
- Contributed to internal tooling to automate large-scale model evaluations, reducing evaluation turnaround by **40%**.
- Supported benchmarking APIs via **FastAPI** and **AWS Lambda**, handling asynchronous workflows.
- Participated in API load testing and log-based debugging using **CloudWatch**.

MICROVERSE   Remote
FullStack Developer And Mentor (Volunteer)   April 2023 – Present
- Mentored 5+ junior devs weekly in API design and backend performance tuning.
- Facilitated code reviews and architecture feedback, increasing mentee pass rates by **25%**.
- Conducted workshops on **Node.js microservices** and **GraphQL APIs**.

HIGHLIGHTED PROJECTS

Global Podcaster Frontend — *Scalable AI Translation API*
- Architected RESTful backend with **Node.js**, deployed on **AWS Lambda** for scalability.
- Integrated **AWS Kinesis** for real-time stream processing and updates.
- Implemented **GraphQL (Apollo Server)** endpoint for reporting dashboard.
- Engineered FastAPI backend with SQLAlchemy ORM supporting 10,000+ concurrent translation jobs
- Implemented agent-based microservices architecture for automated RSS monitoring, transcription, and voice synthesis
- Integrated multiple AI APIs (Deepgram, Mistral AI, ElevenLabs) with error handling and retry logic
- Built real-time WebSocket system for translation progress updates and background task scheduling
- Designed PostgreSQL schema with optimized queries, reducing API response time by 60%.

Built with: **FastAPI, Python, SQLAlchemy, PostgreSQL, WebSocket, Docker, Agent Architecture, AI APIS**
Github: Code

School Attendance Management System — *Realtime systems, database design, and scalable architecture*
- Implemented Websocket-powered push notifications for parent alert on check-ins, check-out, late arrivals, and absences.
- Developed secure QR code generation/validation system for student attendance management
- Designed Secure, isolated data access with row-level security and tenant-based data partitioning.
- Created efficient PostgreSQL schema with Prisma ORM, Indexes and Query Optimization.
- JWT based auth with secure password reset and email verification flows.

Built with: **TypeScript, NodeJS, HonoJS, PostgreSQL, Prisma ORM, WebSockets, JWT, GIT**
Github: Code

AI-Powered Productive Assistant — *Cloud-native backend with real-time AI Integrations*
- **Architected RESTfu**l backend for an AI productivity assistant using **Node.js(Hono)**, deployed on **AWS ECS with Docker** for scalability and resilience.
- **Designed** and **Implemented** a **RESTful AP**I with **PostgreSQL** database for core functionality and **Pinecone** vector database for long-term, semantic memory retrieval , enabling context-aware AI responses.
- **Engineered** a real-time communication system using **Websockets** and a serverless Webhook processing **Pipeline** on **AWS** Lambda to handle events from integrated services (Google, calendar, Gmail, Notion, Slack)
- **Developed** secure **OAuth 2.0** flows for multiple third-party providers (Google, Slack) and a robust notification service with multi-channel delivery (in-app, email, push)

Built with: **TypeScript, Node.js, PostgreSQL, AWS (Lambda, Kinesis), Hono, PostgreSQL, Redis, Pinecone, Docker, WebSockets, OAuth 2.0, REST APIs**
Github: Code

Inventory Management System — *Cloud-native inventory backend with real-time updates*

- Architected RESTful backend with **Node.js**, deployed on **AWS Lambda** for scalability.
- Integrated **AWS Kinesis** for real-time stream processing and updates.
- Implemented **GraphQL (Apollo Server)** endpoint for reporting dashboard.

Built with: **Next.js, Node.js, PostgreSQL, AWS (Lambda, Kinesis), GraphQL**
Github: Code   **Live Demo**: Inventory System

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- Architected RESTful backend with **Node.js**, deployed on **AWS Lambda** for scalability.
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Built with: **Next.js, Node.js, PostgreSQL, AWS (Lambda, Kinesis), GraphQL**
Github: Code   **Live Demo**: Inventory System

Liveblocks — *Real-Time Collaboration Platform*
- Engineered WebSocket communication layer using **Node.js** and CRDT strategies.
- Leveraged **Kafka** for real-time event distribution and conflict resolution.
- Improved session throughput by **60%**.

Built with: **Node.js, Kafka, Clerk, CRDTs, Liveblocks API**
Github: Liveblocks   **Live Demo**: Liveblocks

Rover E-commerce — *Vehicle rental platform*
- Implemented secure user flows and admin dashboards; boosted conversion by **30%**.

Built with: **React-redux, Ruby on Rails, Devise, PostgreSQL**
Github: Rover.github   **Live Demo**: Rover.App

Launch AI — *Startup tools for student-founders*
- Developed MVP builder and feedback analyzer; increased prototype creation by **50%**.

Built with: **Python, Django, Falcon AI**
Github: Launch.ai

EDUCATION

MICROVERSE   February 2023 – November 2023
Remote Full Stack Web Development Program, Full Time
- Spent 1300+ hours mastering algorithms, data structures, and full-stack development while simultaneously developing projects with Ruby, Rails, JavaScript, React, and Redux.
- Developed skills in remote pair-programming using GitHub, industry-standard gitflow, and daily standups to communicate and collaborate with international remote developers.

Warsaw University of Technology
Aerospace Engineering   September 2023
- Aerodynamic Analysis and Optimization of Supersonic Airfoil Shapes.
- Relevant Coursework: Calculus, Computer science, Data Analysis, Engineering Graphics and Mechanics.