Dagim Debrework

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SUMMARY

Mid-level Python and Rust engineer with 4+ years of experience building backend systems, RESTful APIs, blockchain applications, and cloud-deployed services. Proficient in FastAPI, Django, asyncio, and Solana smart contract development using Rust and Anchor. Experienced deploying and scaling services on AWS and GCP, integrating PostgreSQL, MongoDB, and Redis, and building CI/CD pipelines with GitHub Actions and Docker. Skilled in wallet and token integrations on the Solana network. Practised in AI-assisted development using Claude — including prompt engineering and code generation — to accelerate delivery. Committed to clean, maintainable code and cross-functional collaboration in Agile teams.

SKILLS

- **Languages:** Python, Rust, JavaScript, TypeScript, MySQL, HTML5/CSS/XML, Go (learning)
- **Frameworks & Tools:** FastAPI, Django, Anchor (Solana), React, Celery, Pandas, NumPy, RESTful APIs, AWS (Lambda, Elastic Beanstalk), GCP, MongoDB
- **Technologies:** GitHub, VSCode, CI/CD, Docker, Nginx, Caddy, GitHub Actions, Solana Web3.js, SPL Token, Automated Testing, Agile (SCRUM)
- **Specialties:** Backend Development, API Design, Blockchain Development, Smart Contracts, Distributed Systems, Asynchronous Programming, DevOps, Redis, Cross-Platform Development
- **AI & Tooling:** Prompt engineering, AI-assisted development (Claude API), code generation, LLM integration

WORK EXPERIENCE

Mereb Technologies Mar. 2024 – Present

Software Developer

- Built a real-time data dashboard using TypeScript (React + Node.js), improving data refresh speed by 45%.
- Integrated a Rust microservice into a TypeScript backend, cutting validation time by 60%.
- Automated CI/CD pipelines with GitHub Actions and Docker, reducing deployment time from 30 to 5 minutes.
- Configured Nginx and Caddy as reverse proxies, improving request routing reliability and reducing downtime by 30%.

Freelance Backend & Blockchain Developer Jul. 2022 – Aug. 2023

Independent Contractor — Private Clients

- Designed and deployed Solana smart contracts using Rust and the Anchor framework for 3 private clients, handling token minting, staking logic, and on-chain data storage.
- Built SPL token and wallet integration layers (Phantom, Solflare) consumed by React frontends, reducing client integration time by 40%.
- Developed FastAPI and Django backend services to bridge off-chain business logic with on-chain Solana programs, supporting over 5,000 daily transactions at peak.
- Implemented Redis-backed caching and Celery task queues for async job processing, cutting average API response times by 50%.
- Deployed all services on AWS (EC2, Lambda) behind Nginx, with Docker-based CI/CD pipelines ensuring zero-downtime releases.

Minab Technologies Sep. 2023 – Feb. 2024

Junior Software Engineer

- Deployed and maintained 8+ RESTful API endpoints using Django and FastAPI on AWS (Elastic Beanstalk, Lambda) and GCP, serving over 10,000 monthly active users.
- Integrated MongoDB and PostgreSQL databases into distributed backend systems, reducing query latency by 35% through schema optimisation and indexing.
- Designed DevOps workflows using Docker and GitHub Actions, cutting release cycle time by 40% and improving cross-platform deployment consistency.

PROJECTS

Mels — AI-Powered Multi-Channel CRM 2024 – Present

mels.live

- Built a production SaaS CRM platform unifying WhatsApp, Instagram, Facebook, and Meta Ads into a single team inbox, serving businesses in healthcare, real estate, and hospitality verticals.
- Engineered an AI assistant layer for automated lead qualification, FAQ handling, and business report generation — reducing manual response time by over 60% for pilot clients.

- Designed a visual sales pipeline (kanban-style) with event-driven automations: auto-assignment, triggered messaging, and pipeline stage updates via backend workflow engine built in FastAPI and Celery.
- Integrated Stripe for subscription billing across Free, Basic ($60/mo), Business ($99/mo), and Enterprise ($299/mo) tiers, with webhook-driven provisioning and usage-based rate limiting.
- Deployed on AWS with Docker, Nginx, and CI/CD pipelines; implemented Redis-backed queues to handle high-throughput messaging loads reliably at scale.

Openbcp — Crypto payment gateway using USDT on BSC network 2025 – 2026

openbcp.com

- Built a full-stack cryptocurrency payment gateway enabling merchants to accept USDT payments over the BNB Smart Chain, with a hosted checkout, embeddable widget, and SDK-based integrations for e-commerce and SaaS businesses..
- Engineered a secure Python (Flask) payment core supporting hosted checkout pages, an embeddable JS widget, and webhook-driven order notifications, backed by a custom RPC failover proxy (Alchemy primary, NodeReal fallback) for reliable on-chain payment detection.
- Built dedicated Celery worker services for blockchain scanning, balance refresh, and multi-wallet payouts, isolating payout processing on a priority queue so merchant withdrawals are never delayed by routine background tasks.
- Implemented Google OAuth authentication and TOTP-based two-factor authentication with backup codes, alongside a merchant dashboard covering transaction tracking, analytics, refunds, and withdrawal management.
- Deployed on a Python backend (Flask) with PostgreSQL and Redis, Nginx reverse proxy, and Docker Compose-based orchestration across seven services supporting zero-downtime releases.

EasySQL — Visual Database Designer & SQL Generator2023 – Present

easysql.cloud

- Built a free browser-based ER diagram tool that lets developers design database schemas visually and generate production-ready SQL DDL (PostgreSQL, MySQL) without writing a single query.
- Implemented real-time diagram rendering with drag-and-drop table creation, relationship linking, and instant SQL export — removing the technical barrier for non-SQL users and junior developers.
- Designed the backend schema parser and SQL generation engine in Python, supporting foreign key inference, constraint generation, and multi-dialect output.

Imperfect Design Studio — 3D Rendering & Visualisation Platform2023 – Present

imperfectdesign.studio

- Built a full-stack client platform for a 3D architectural visualisation studio offering interior, landscape, and product rendering services to international clients across the USA, Canada, and Europe.
- Engineered a secure Python-based checkout system handling multi-tier service plans with credit card, PayPal, and bank transfer support, including SLA-driven refund logic (10% at 1 day late, 100% at 2+ days).
- Developed a custom offer and quote delivery system allowing the team to negotiate bulk and enterprise orders via email-triggered proposal workflows, reducing back-and-forth turnaround time significantly.
- Implemented Google OAuth authentication, order tracking dashboard, and client portal — enabling customers to monitor project status and request revisions post-delivery.
- Deployed on a Python backend (Django) with a responsive frontend, Nginx reverse proxy, and Docker-based CI/CD pipeline supporting zero-downtime releases.

EDUCATION

Adama Science and Technology University June 2022

BSc in Computer Science

Saylor Academy2025

Certificate — Introduction to Python Programming (CS101)