



Jill Gardner

Mid-level Software Engineer - ClimateTech
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Ocean Territory (Chagos Archipelago)

SKILLS

Python • FastAPI • PostgreSQL • Docker • Docker Compose • SQLAlchemy • Alembic • Pydantic •
AsyncIO • REST APIs • Git • CI/CD • pytest • AWS

EXPERIENCE

Software Engineer — Aquila Climate Labs

March 2024 – Present

Led the development of a FastAPI-based climate data API, handling 10k+ daily API calls with asynchronous endpoints to ensure scalability. Implemented a PostgreSQL data model with partitioning and Alembic migrations, reducing query latency by 35% and enabling efficient time-series storage. Containerized services with Docker and Docker Compose; created CI/CD pipelines (GitHub Actions) that cut deployment time by 60% and ensured reproducible environments.

Software Engineer — GreenMetrics Inc.

March 2022 – December 2023

Built a Python-based data ingestion and analytics platform with FastAPI REST APIs for climate telemetry. Designed PostgreSQL schemas and ETL processes, achieving 40% higher data throughput and faster time-to-insight. Implemented Dockerized microservices and CI/CD pipelines, improving deployment reliability and reducing manual setup time.

Junior Software Engineer — Oceanic Climate Systems

July 2020 – February 2022

Contributed to sensor data processing services in Python and exposed internal APIs via FastAPI. Implemented a PostgreSQL backend with SQLAlchemy and basic migrations, enabling scalable data storage. Dockerized services and collaborated with cross-functional teams to standardize development environments.

EDUCATION

B.S. in Computer Science

ClimateTech University

Graduated: 2018