



David Thornton

Lead Software Engineer - ClimateTech Platform
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SKILLS

Python • FastAPI • PostgreSQL • Docker • Kubernetes • AWS • GCP • CI/CD (GitHub Actions) • SQLAlchemy • API Design • Data Modeling • Testing (pytest)

EXPERIENCE

Lead Software Engineer - ClimateTech Platform — EcoPulse Analytics

March 2024 – Present

Led the design and delivery of a scalable data platform for climate analytics, processing multi-terabyte daily streams with Python-based microservices. Built RESTful APIs with FastAPI backed by PostgreSQL, containerized in Docker and deployed on Kubernetes, achieving 99.95% uptime. Implemented CI/CD pipelines and container security, reducing deployment time by 60% and time-to-restore by 40%.

Senior Software Engineer - Climate Analytics — GreenGlobe Analytics

July 2020 – February 2023

Developed data ingestion and processing pipelines using Python, FastAPI, and PostgreSQL. Designed and deployed scalable microservices with Docker on AWS, implementing observability and robust error handling. Mentored 2 engineers and improved test coverage from 68% to 92%, while shipping features that cut data latency by 30%.

Software Engineer - Climate Solutions — Nordic Earth Solutions

June 2017 – June 2020

Implemented backend services in Python to support climate data collection and visualization. Architected PostgreSQL schemas and migrations; contributed to API design with FastAPI. Collaborated with data scientists to deliver end-to-end features, increasing data processing throughput by 30%.

EDUCATION

Master of Science in Computer Science

Institute of Climate Technology

Graduated: 2016