

ANGELOS PANAGIOTOPOULOS

Senior Backend Engineer · Go & Python · AWS

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PROFILE

Senior Backend Engineer with 10+ years building high-traffic distributed systems across sports data, fintech, security, and e-commerce platforms. Specialises in Go and Python, with a strong track record of migrating legacy systems, reducing latency, and architecting scalable cloud-native solutions on AWS. Currently delivering real-time data infrastructure for high-profile live sporting events.

TECHNICAL SKILLS

Backend Go (Huma), Python (FastAPI, Django)

Data & Messaging Pydantic, Pandas, NumPy, GORM, SQLAlchemy, Alembic, sqlalchemy, RabbitMQ, Kafka, AWS SQS/SNS, Celery

Frontend TypeScript, React, Next.js, Vite, TanStack Router/Query, Tailwind CSS, Node.js

Databases PostgreSQL, MySQL, Neo4j, Elasticsearch, AWS DynamoDB

Cloud & DevOps AWS (Certified Developer – Associate), GCP, Docker, ECS/Fargate, Lambda, AWS CDK, Terraform

CI/CD & Quality GitLab CI/CD, GitHub Actions, golangci-lint, ruff, ty, uv, Testcontainers, pytest

Monitoring Grafana, AWS CloudWatch, slog (Go), structlog (Python)

Visualisation Cytoscape.js, D3.js, NetworkX

AI Tools Claude Code

WORK EXPERIENCE

Stadion April 2025 – Present

Backend Engineer (Go/Python) London, UK

- Built and maintained AWS backend systems for high-profile tennis and rugby competitions — ingestion pipelines on Lambda/S3, backend services on ECS Fargate, RDS MySQL — sustaining high-traffic tournament finals with zero incidents.
- Migrated mission-critical services from legacy Flask to FastAPI and Go, cutting CPU/memory usage and ECS costs while increasing throughput.
- Identified and resolved fundamental architectural issues inherited from previous implementations — oversized SQL queries with no server-side filtering, and business logic offloaded entirely to frontend and mobile clients.
- Re-architected data access and server-side logic, reducing JSON response payloads by up to 99% and response times from ~20 seconds to milliseconds on high-traffic endpoints.
- Architected dynamic polling services in Go for high-frequency live event ingestion and transformation, publishing to AWS SQS for downstream processing, with fixed, event-state-driven, and per-event scheduling — deployed for high-profile international rugby tournaments.
- Implemented SSO flows with JWT parsing and validation against Azure tenants.
- Designed and tuned CloudFront caching strategies for live scoring endpoints.
- Optimised MySQL queries with GORM and raw SQL, and fixed broken database migrations to improve data layer reliability.
- Modernised the entire stack — upgraded services to Go 1.26 and Python 3.14, standardised Go quality with golangci-lint, and replaced legacy pip workflows with uv, ruff, and ty for dependency management, linting, and type checking.
- Documented APIs using code-first OpenAPI with Go/Huma and FastAPI.
- Implemented multi-stage Docker builds, reducing image sizes and accelerating ECS deployments.
- Set up CI/CD pipelines in GitLab and GitHub with automated linting, formatting, unit, and integration tests (Testcontainers).
- Introduced structured logging and CloudWatch monitoring to track live pipelines and performance.
- Leveraged Claude Code daily to accelerate backend development, debugging, and code review across Go and Python services.

Elsewhen February 2025 – April 2025

Freelance Cypher Python Engineer London, UK

- Designed FastAPI RESTful APIs for audience targeting and insight generation.
- Migrated data between relational and graph databases (PostgreSQL, Neo4j) with full integrity guarantees.
- Built interactive React + Cytoscape.js graph visualisations to surface insights and support analysis.
- Enforced code quality with ruff and mypy; delivered regular stakeholder demos integrated into sprint planning.

Accenture October 2022 – February 2025

Application Lead / Full Stack Engineering Associate Manager London, UK

- Led full-stack development of internal security platforms for CVE reporting and red-team automation, using Python (FastAPI), Go (Huma), React/TypeScript (Next.js, Vite, TanStack), and Tailwind CSS.
- Integrated Terraform (terraform-exec) and RabbitMQ for scalable, asynchronous infrastructure workflows.
- Deployed containerised services on AWS Fargate with Lambda/SNS/SQS serverless pipelines and AWS CDK for infrastructure as code.
- Implemented JWT authentication with AWS Cognito and Azure Entra, supporting MFA and custom authentication flows.
- Designed PostgreSQL data layers via SQLAlchemy and sqlc; set up GitLab CI/CD pipelines for automated testing and deployments.
- Visualised infrastructure relationships with Cytoscape.js to improve system clarity and operability.
- Mentored junior engineers across backend development, system architecture, and DevOps best practices.

Infinity Works (part of Accenture) April 2021 – September 2022

Senior Consultant London, UK

- Built a document ingestion and search platform for an insurance client — refactored legacy systems into Python (FastAPI) APIs on AWS ECS/Fargate with Elasticsearch (phrase matching, advanced queries, index migrations) and OCR ingestion via Apache Tika and SQS.
- Implemented JWT authentication and structured logging (structlog).
- Integrated Grafana for monitoring and alerting.
- Defined infrastructure with Terraform and implemented GitHub Actions CI/CD.
- Mentored engineers on modern Python, containerisation, and testing best practices.

KPMG UK July 2019 – February 2021

Senior Software Engineer London, UK

- Built an interactive network visualisation tool (FastAPI, React, D3.js) integrating external APIs (Companies House, Equifax) with Neo4j and NetworkX for finance client analysis.
- Developed a rule-based loan approval engine and automated report generator in Python (Flask).
- Designed and implemented secure authentication flows for internal and external users.
- Acted as team lead and mentor, supporting engineers and apprentices in backend, frontend, and data development.

MediaMath August 2017 – July 2019

Software Engineer London, UK

- Built real-time advertising entity tracking in Go with Kafka and PostgreSQL for downstream processing and third-party notifications.
- Developed campaign scheduling and bidding workflows using Python (Flask) and Celery.
- Guided an offshore team on architecture and deployment of a greenfield bidding automation and forecasting platform.

Sainsbury's May 2016 – July 2017

Software Engineer London, UK

- Delivered backend microservices for high-traffic grocery e-commerce (product placement, basket, payments) in Go with Gorilla and Kong.
- Built electronic media sales and payment integration including refunds using PHP (Slim) and external payment gateways.

Telemetry February 2015 – May 2016

Software Engineer London, UK

- Contributed to a SaaS platform for advertising metrics and fraud detection, automating metric queries and vendor reporting.

Aubay November 2012 – June 2014

Software Development Engineer for Amadeus IT Group Sophia Antipolis, France

- Developed backend web services for airline group reservations, including segment-based quotations and business rules (child discounts, location-based pricing).

EDUCATION & MILITARY SERVICE

University of Southampton 2011 – 2012

MSc Software Engineering (Merit) Southampton, UK

University of Piraeus 2005 – 2010

BSc Digital Systems / Communication Systems and Networks (2:1) Athens, Greece

American College of Greece 1999 – 2005

Secondary School (18.3/20) Athens, Greece

Greek Army — 2nd Battalion of Fighting Helicopters Nov 2010 – Aug 2011

Mandatory National Service Greece

A D D I T I O N A L

Languages English (bilingual), French (professional working proficiency), Greek (native)

Citizenship Dual British / Greek

Driving European driving licence