

Pano Georgiadis

Cloud Engineer | Multi-Cloud Certified | DevOps, AI & Infrastructure Specialist

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Professional Summary

Dynamic Cloud Engineer and DevOps specialist with expertise in serverless architectures, microservices, and containerization. Demonstrated success in implementing high-availability infrastructure and CI/CD pipelines using Jenkins, GitLab CI, and GitHub Actions. Proven track record of reducing cloud costs by 35% through Reserved Instances and automated resource management. Strong background in infrastructure-as-code using Terraform and Ansible, with experience in multi-cloud environments (AWS, GCP, Azure). Expertise in implementing robust security practices, incident response, and maintaining SOC 2 compliance.

Education

Master of Science in Computer Science

Jan 2024 - Apr 2025

University of Colorado Boulder

GPA: 4.0

Focus: Cloud-Native Architecture, Machine Learning, Systems Engineering

Core Competencies: Algorithm Design (Greedy Algorithms, Optimization) | Cloud Architecture (Scalable Systems, Big Data) | Machine Learning (Neural Networks, Ethical AI) | Data Engineering (Pipeline Development) | Systems Design | Database Management | Network Systems | Data Analytics | DevOps Practices | Continuous Integration / Continuous Delivery | Security

Professional Development & Early Education

Front End Web Developer Nanodegree – Udacity

Aug 2024 - Nov 2024

- Advanced SPA development with modern frameworks, asynchronous programming patterns, responsive design

Cloud Engineer IT Professional Program – Linux Foundation & CNCF

Aug 2023 - Jun 2024

- LF Certified Cloud Technician, CNCF Certified Kubernetes Administrator, Advanced Linux system administration

Cloud Architecture & IT Support Program – Visible Edge, Inc.

Mar 2023 - Aug 2023

- CompTIA Trifecta certification, Multi-cloud certification (Azure, AWS), ITIL 4 Framework implementation

Early Education – Saint John's High School

Graduated with Honors

- NHS Member, AP Mandarin Chinese, Varsity Wrestling Captain, Investment Club, Jazz Band (Guitar)

Professional Experience

Systems Administrator - Cloud Engineer

Meze LLC, Massachusetts

Mar 2019 - Jan 2025

Key Achievements:

- Designed and implemented hybrid cloud infrastructure using AWS EC2 and on-premise systems for POS operations, achieving 99.9% uptime through Auto Scaling and Route 53
- Reduced cloud infrastructure costs by 25% through AWS Reserved Instances and automated resource scheduling while maintaining system performance
- Implemented containerization using AWS ECS, Docker, and CI/CD with GitHub Actions, reducing deployment time from hours to minutes
- Configured enterprise-grade Ubiquiti networking infrastructure, implementing custom NAT, VLANs, and secure network segmentation for business operations
- Developed infrastructure-as-code using Terraform for consistent deployment of EC2 instances and RDS databases, streamlining system provisioning by 60%
- Established monitoring and alerting using Prometheus and Grafana, reducing incident response time by 40% through custom dashboards
- Created Python automation scripts for system maintenance and backup validation, saving 15 hours/month in manual administrative work

Communications Systems Specialist - IT Support

Army Signal Corps, Greece

Jan 2022 - Dec 2023

Key Achievements:

- Fulfilled dual US-Greek military service obligation while managing diverse computer and communication networks for military operations
- Configured RADIUS and TACACS+ servers to enhance network security and access control, and implemented secure communication protocols to support mission-critical operations
- Maintained and upgraded surveillance camera infrastructure to ensure reliability, collaborating with cross-functional teams to improve system performance
- Led technical training for military personnel, fostering skill development and readiness for complex technical challenges

Certifications

[AWS Solutions Architect - Associate](#)

[AWS Cloud Practitioner](#)

[Certified Kubernetes Admin \(CKA\)](#)

[CompTIA Cloud+](#)

[Azure Fundamentals](#)

[CompTIA Security+](#)

[ITIL v4](#)

[Linux Foundation Certified System Admin \(LFCS\)](#)

[CompTIA Linux+](#)

[CompTIA Server+](#)

[CompTIA A+](#)

[IBM Cloud Essentials](#)

[CompTIA Network+](#)

[Cloud Engineer IT Professional](#)

Technical Skills

- **Cloud & Infrastructure:** AWS (EC2, S3, Lambda, ECS, CloudFormation, IAM), GCP (Cloud Functions, Cloud Storage), Azure (Functions, Blob Storage), DigitalOcean, High Availability Architecture, Disaster Recovery Planning
- **DevOps & Automation:** CI/CD Pipelines, Infrastructure as Code (Terraform modules, CloudFormation templates), Configuration Management (Ansible playbooks), Docker, Kubernetes, Jenkins, GitHub Actions
- **Monitoring & Operations:** Prometheus (with PromQL), Grafana dashboards, ELK Stack, CloudWatch Logs/Metrics, PagerDuty, Incident Response, Capacity Planning
- **Security & Compliance:** IAM policies, WAF configuration, SOC 2 compliance, HIPAA controls, Security best practices, Vulnerability assessment
- **Programming & Scripting:** Python (boto3, fabric), Bash scripting for automation, TypeScript, JavaScript, Java, Node.js, SQL
- **Systems & Networking:** VPC design, Transit Gateway, Load Balancing (ALB/NLB), Direct Connect, VPN, Subnetting
- **Methodologies:** Agile (Scrum/Kanban), DevOps culture, Problem-solving, Incident Management, Cost Optimization
- **Additional:** Technical Documentation, Project Management, Strategy Development, Greek, Mandarin

Cloud-Based Projects

InvestProphet - Stock Price Prediction Platform

Full-stack microservices application for real-time stock price prediction using LSTM neural networks.

- **Infrastructure & Security:** Implemented serverless architecture using AWS Lambda and API Gateway, configured IAM roles with least privilege principle, enabled AWS WAF for protection against common web exploits, achieved 99.95% availability through multi-AZ deployment
- **DevOps & Automation:** Created modular Terraform configurations for infrastructure provisioning, implemented blue-green deployments using AWS CodeDeploy, reduced deployment time by 70% through automated CI/CD pipeline
- **Monitoring & Operations:** Implemented comprehensive monitoring using CloudWatch custom metrics, Prometheus, and Grafana dashboards, set up automated incident response with PagerDuty integration, achieved 30% reduction in MTTR
- **Cost Optimization:** Implemented automated resource scheduling and right-sizing using custom Python scripts, resulting in 40% cost reduction in development environments

GKE Voting Application

Multi-tier voting application deployment on Google Kubernetes Engine using ArgoCD.

- **Infrastructure & Components:** GKE cluster deployment, Redis for real-time collection, PostgreSQL database, .NET worker service, Frontend in Python, Results App in Node.js, Multi-tier architecture.
- **Deployment & Automation:** ArgoCD for continuous delivery and lifecycle management, Google Cloud SDK integration, Kubernetes service configuration, Docker Hub image hosting, Auto-sync deployment, Jenkins pipeline integration, YAML configuration management, Continuous integration workflow.

Personal Portfolio Website

Modern, responsive portfolio website built with Next.js 15 and hosted on AWS.

- **Infrastructure & Frontend:** Amazon S3 static hosting, CloudFront content delivery, ACM SSL/TLS certification, Next.js 15.0.3 with App Router, React 19.0.0-rc, TailwindCSS styling, TypeScript implementation, Framer Motion animations, Zustand state management.
- **Features & Deployment:** Persistent particle system, Cross-page animations, Optimized performance, Custom easing functions, GitHub Actions CI/CD, S3 bucket hosting, CloudFront distribution, Route 53 DNS management, Custom domain configuration.

Machine Learning Projects

NLP Disaster Tweet Classification

Deep learning model using LSTM and GloVe embeddings to classify tweets as disaster-related or non-disaster. Achieved 82% accuracy with optimized threshold detection.

- **Infrastructure & Model:** CUDA-enabled GPU processing, TensorFlow mixed precision training, LSTM network with GloVe embeddings (300d), Bidirectional LSTM layers (64/128 units), Batch Normalization for stability, L2 regularization, Dropout layers (0.3 rate), Adam optimizer with tuned learning rate, Keras Tuner optimization.
- **Preprocessing & Performance:** Text tokenization and lemmatization, Custom contraction handling, Stop word removal, HTML entity decoding, Achieved Accuracy: 82%, Precision: 0.89, Recall: 0.71, F1-Score: 0.79, Optimized threshold: 0.374.

Histopathologic Cancer Detection CNN

Deep learning model for detecting metastatic cancer in histopathologic tissue images using custom CNN architecture.

- **Infrastructure & Architecture:** Custom CNN architecture, ESRGAN super-resolution model, Keras Tuner optimization, Custom 4-layer CNN design, Batch normalization for stability, Dropout regularization (rate: 0.5382), Adam optimizer with tuned learning rate, Advanced data augmentation.
- **Performance & Optimization:** Achieved Accuracy: 86.89%, Precision: 84.95%, Recall: 82.20%, F1-Score: 83.55%, AUC-ROC: 0.9359, Hyperband tuning algorithm, Cross-validation with 3 folds, Dynamic threshold optimization, Early stopping with patience, Learning rate scheduling.