Pano Georgiadis

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

✉ pgeorgiadis.it@gmail.com | 🌐 pgcloud.dev | 💼 p-georgiadis | ⚙ p-georgiadis

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 high-availability architecture using AWS Auto Scaling groups and Route 53, achieving 99.99% uptime and reducing system downtime by 75%
- Reduced cloud infrastructure costs by 35% through implementing AWS Reserved Instances and spot instances, along with automated resource scheduling
- Developed Terraform modules and CloudFormation templates for infrastructure provisioning, reducing deployment time from days to hours
- Implemented comprehensive monitoring using Prometheus and Grafana, reducing MTTR by 60% through custom alerting and dashboards
- Created automated disaster recovery procedures using AWS Backup and cross-region replication, achieving RPO of 1 hour and RTO of 4 hours
- Established SOC 2 Type II compliance controls and implemented security best practices, including AWS WAF and Security Hub
- Developed custom Python scripts using boto3 for automated backup validation and cost optimization, saving 20 hours/month in manual 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	Linux Foundation Certified System Admin (LFCS)
AWS Cloud Practitioner	CompTIA Linux+
Certified Kubernetes Admin (CKA)	CompTIA Server+
CompTIA Cloud+	CompTIA A+
Azure Fundamentals	IBM Cloud Essentials
CompTIA Security+	CompTIA Network+
ITIL v4	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.