

# Panagiotis 'Pano' Georgiadis

Cloud & DevOps Engineer | M.S. Computer Science, AI/ML Specialization | Multi-Cloud Certified |  
Kubernetes CKA, Terraform | CompTIA Network of Experts Contributor | Linux & Security Specialist

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## Professional Summary

Cloud Engineer and DevOps specialist with an MS in Computer Science (4.0 GPA) and 20+ technical certifications including AWS Solutions Architect, Microsoft Certified Azure Administrator, HashiCorp Terraform Associate, CKA, and multiple CompTIA credentials. Experienced in building scalable multi-cloud infrastructure using AWS and Azure services, Kubernetes orchestration with Helm, and containerization technologies. Combines hands-on Linux systems administration experience with modern cloud practices including GitHub Actions CI/CD pipelines and Infrastructure as Code using Terraform, ARM templates, and Bicep. Proficient in bridging traditional IT operations with cutting-edge cloud solutions, with additional expertise in machine learning integration for business applications. Seeking Cloud Engineering or DevOps Engineering positions to leverage technical skills in a larger enterprise environment.

## Education

### Master of Science in Computer Science

Jan 2023 - May 2025

University of Colorado Boulder

GPA: 4.0

**Specializations:** Software Architecture for Big Data, Machine Learning, Networking & Cloud Systems, Algorithms, Computing Ethics

**AI Certificate Program:** Machine Learning, Robotics, Autonomous Systems, Generative AI

**Core Competencies:**

- Algorithm Design & Quantum Computing
- Cloud & Network Architecture
- Machine Learning & Neural Networks
- Autonomous Systems & Robotics
- Data Mining & Database Systems
- Software Architecture & OO Design

## Certifications

|                                   |                                  |  |
|-----------------------------------|----------------------------------|--|
| AWS Solutions Architect Associate | Azure Administrator Associate    | Kubernetes Administrator (CKA)         |
| HashiCorp Terraform Associate     | LFCS: Linux System Administrator | LFCT: Linux Certified Cloud Technician |
| CompTIA Security+                 | CompTIA CloudNetX                | CompTIA Cloud+                         |
| CompTIA Network+                  | CompTIA Server+                  | CompTIA Linux+                         |
| CompTIA A+                        | ITIL 4 Foundation                | LF Cloud Engineer IT Professional      |

## Professional Development & Early Education

### AI Programming with Python Nanodegree – Udacity

Nov 2024 - Mar 2025

- Developed AI applications with Python, NumPy, pandas, and Matplotlib; implemented neural networks with PyTorch
- Applied linear algebra and calculus fundamentals to build and train an image classifier using backpropagation

### Front End Web Developer Nanodegree – Udacity

Aug 2024 - Nov 2024

- Built responsive web applications with JavaScript, DOM manipulation, asynchronous programming, and Express
- Implemented performance optimization using Webpack, Sass, and service workers for offline functionality

### 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 A+ and Network+, Microsoft Azure Fundamentals, AWS Certified Cloud Practitioner, ITIL 4 Certified

### 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 - Jr. Cloud Engineer

Meze LLC, Massachusetts Mar 2019 - Jan 2025

- **Cloud & Infrastructure Management:** Designed and implemented AWS-based infrastructure (EC2, RDS, ECS) for business applications; orchestrated containerized applications using Docker and Kubernetes; created CI/CD pipelines with GitHub Actions; implemented monitoring and logging solutions.
- **Network & Security Administration:** Architected secure network infrastructure using Ubiquiti products, configuring VLANs, subnets, and custom NAT rules; established network segmentation with separate WiFi networks; managed firewall configurations and security protocols.
- **Systems Administration:** Migrated from traditional PBX to EC2 and Raspberry Pi-based 3CX phone systems with SIP trunking, reducing monthly telecom costs by 90% while achieving 99.9% uptime and enhancing call quality; automated Linux system maintenance with custom scripts and scheduled jobs; implemented Nginx for on-premise web hosting.
- **Technical Leadership:** Designed and deployed a hybrid cloud-on-premises environment that maintained critical business functions during 7 power outages and 3 major ISP disruptions, ensuring continuous payment processing and remote operations; served as primary technical resource for a 15-employee organization; created comprehensive technical documentation.

## Signals Corps Specialist

Greek Army, Central Macedonia, Greece Jan 2022 - Dec 2023

- Fulfilled mandatory military service requirement as a US-born citizen with dual Greek citizenship, applying technical skills to military communication systems while meeting conscription obligations.
- Maintained mission-critical military communication networks with 99.98% uptime requirements in high-pressure tactical environments, developing exceptional troubleshooting skills under extreme time constraints.
- Implemented advanced authentication systems including RADIUS and TACACS+ for secure access control across sensitive network infrastructure, ensuring zero security breaches during tenure.
- Operated in 24/7 rotating shift environments responding to priority incidents within 5-minute SLAs, developing exceptional incident management capabilities applicable to cloud infrastructure monitoring.
- Applied military-grade security standards to mission-critical systems while successfully completing 20+ high-stress deployment exercises, demonstrating adaptability and performance excellence under pressure.

## Projects

### InvestProphet - Stock Price Prediction Platform

[github.com/p-georgiadis/investprophet](https://github.com/p-georgiadis/investprophet)

- Engineered a serverless microservices architecture using AWS Lambda and API Gateway with IAM roles following least privilege principles, achieving 99.95% availability through multi-AZ deployment.
- Implemented infrastructure-as-code with modular Terraform configurations and reduced deployment time by 70% through automated CI/CD pipelines with blue-green deployment strategies.
- Established comprehensive monitoring with CloudWatch custom metrics, Prometheus, and Grafana dashboards, reducing MTTR by 30% through PagerDuty integration for automated incident response.

### Multi-Tier Voting Application with ArgoCD on GKE

[github.com/p-georgiadis/vote-deploy](https://github.com/p-georgiadis/vote-deploy)

- Orchestrated a multi-component architecture on Google Kubernetes Engine comprising Python frontend, Node.js results interface, Redis queue, .NET worker service, and PostgreSQL database.
- Implemented GitOps-based continuous delivery using ArgoCD with auto-sync policies and YAML configuration management for automated application lifecycle management.
- Integrated Google Cloud SDK for seamless cluster operations and created Jenkins pipelines for continuous integration workflow, demonstrating mastery of modern cloud-native deployment practices.

### Dockerized Digital Picture Frame Solution

[github.com/p-georgiadis/home-digital-picture-frame](https://github.com/p-georgiadis/home-digital-picture-frame)

- Developed a containerized Python/Flask application with Waitress WSGI server, implementing Docker volume mounting for persistent storage and permissions management.
- Created a LAN-accessible media server with robust container restart policies, automated metadata extraction, and a secure admin interface for content management.
- Utilized Docker's container orchestration capabilities to ensure continuous operation across system restarts, demonstrating real-world application of containerization principles.

### Next.js Portfolio with AWS Infrastructure

[github.com/p-georgiadis/portfolio](https://github.com/p-georgiadis/portfolio)

- Architected a modern web application using Next.js 15 and React 19, incorporating TypeScript, TailwindCSS, and Framer Motion for a responsive, animated user experience.
- Implemented a serverless AWS infrastructure with S3 static hosting, CloudFront CDN, ACM SSL/TLS certification, and Route 53 DNS management for optimal performance and security.
- Established a fully automated deployment pipeline using GitHub Actions for CI/CD, enabling seamless updates and version control for both infrastructure and application code.

## Technical Skills

- **Cloud Platforms:** AWS Solutions Architect, Azure-900 & AZ-104, EC2, S3, RDS, Lambda, ECS, EKS, Azure App Service, Azure Functions, Virtual Machines, Storage Accounts, Resource Manager, ARM Templates, Bicep, GCP, Multi-Cloud
- **Infrastructure as Code:** Terraform Associate Certified, HashiCorp Terraform, AWS CloudFormation, Azure ARM, Azure Bicep, Infrastructure Automation, Policy as Code, GitOps, Infrastructure Pipelines
- **Container & Orchestration:** Kubernetes Administrator (CKA), Docker, Helm Charts, Container Registry, Kubernetes Operators, Pod Security, Service Mesh, Container Orchestration, Microservices
- **DevOps & CI/CD:** GitHub Actions, Azure DevOps, Jenkins, CI/CD Pipelines, Build Automation, Deployment Automation, Configuration Management, Ansible, Infrastructure Deployment
- **Security & Compliance:** CompTIA Security+, CompTIA CloudNetX, Zero Trust, IAM, RBAC, Network Security, WAF, Security Groups, Vulnerability Management, Compliance (SOC 2, HIPAA)
- **Linux & Systems:** LFCS Certified, LFCT Certified, Red Hat, Ubuntu, CentOS, Shell Scripting, System Administration, Performance Tuning, Log Management, Troubleshooting
- **Monitoring & SRE:** Prometheus, Grafana, ELK Stack, CloudWatch, Azure Monitor, Observability, Alerting, SLI/SLO, Incident Management, Site Reliability Engineering
- **Programming:** Python, Bash, PowerShell, JavaScript, Node.js, SQL, REST APIs, SDK Integration, Automation Scripts, boto3, Azure SDK