Francesc Barnola
DevOps Engineer & Cloud Infrastructure Specialist

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Professional Summary

DevOps Engineer with a solid foundation in software development and systems engineering, specializing in cloud infrastructure automation and CI/CD pipeline implementation. Currently working with AWS cloud services, GitHub Actions, Terraform, and monitoring solutions to streamline deployment processes and improve system reliability.

Passionate about leveraging technology to automate complex processes and solve infrastructure challenges. Strong background in programming with Python and C, combined with hands-on experience in embedded systems development. Currently pursuing MSc in Cybersecurity and Privacy to integrate security-first principles into DevOps practices and eager to take on new challenges in cloud-native environments.

Professional Experience

Fundcraft   **Girona, Spain**
DevOps Engineer   *Feb. 2025 - Present*

○ Designed and deployed CI/CD pipelines using GitHub Actions for automated testing and deployment
○ Provisioned AWS and Google Cloud infrastructure using Terraform, managing EC2, ECS, and S3 resources
○ Configured Datadog monitoring with custom dashboards and alerting for proactive issue detection
○ Automated configuration management using Ansible, ensuring consistent deployment across environments
○ Implemented internal Docker tooling for streamlined development workflows across the company
○ Collaborate with development teams to optimize application deployment workflows and enhance system reliability
○ Troubleshoot production issues and implement solutions to improve system performance and uptime

SALICRU S.A.   **Santa Maria de Palautordera, Barcelona**
Embedded Systems Engineer   *Sep. 2023 - Feb. 2025*

○ Developed automated testing frameworks for microcontroller firmware validation
○ Built reusable communication libraries for various hardware protocols
○ Implemented debugging and monitoring tools for embedded system diagnostics
○ Created firmware for microcontrollers using C, focusing on performance optimization and reliability

SALICRU S.A.   **Santa Maria de Palautordera, Barcelona**
Software Engineer   *Feb. 2022 - Jul. 2023*

○ Developed a desktop application with Python-based graphical interface for automatic code generation
○ Created intuitive GUI using PySide2/PyQt frameworks with database integration
○ Implemented template-based code generation to streamline embedded systems development
○ Designed relational database schema for storing code templates and project configurations

Technical Skills

Cloud Platforms & Services: **AWS:** EC2, ECS, ECR, S3, CloudWatch, IAM, VPC
Google Cloud: Cloud Run Jobs, Cloud Storage, Compute Engine
Multi-Cloud: Oracle Cloud, DigitalOcean, Linode, Hetzner

DevOps & CI/CD: **CI/CD:** GitHub Actions, GitLab CI
Containerization: Docker, Docker Compose
Infrastructure as Code: Terraform, Ansible
Monitoring: Datadog, Grafana, Prometheus, CloudWatch

Programming & Scripting: **Primary:** Python, Bash, C
Secondary: JavaScript, Java, PHP, Lua
Markup & Config: YAML, JSON, HTML, CSS

Version Control & Tools: Git, GitHub, GitLab, Subversion (SVN), JIRA, NVim

Operating Systems: Ubuntu, Debian, Alpine, Windows, Kali Linux, Raspbian

Development Frameworks: Django, FastAPI, NextJS, Flask, PySide2, PyQt, Qt, Bootstrap, Drupal CMS

Databases: MongoDB, MySQL, PostgreSQL, Redis

Certifications & Professional Development

In Progress: AWS Certified Solutions Architect - Associate (Currently studying)

Education

Universitat Oberta de Catalunya   **Barcelona, Spain**
Master of Science in Cybersecurity & Privacy   *Sep. 2024 - Present*
- **Focus Areas:** Security infrastructure, penetration testing, digital forensics, security auditing

- **Relevant Coursework:** Cloud Security Architecture, DevSecOps, Incident Response, Risk Management

- **Applied Learning:** Integrating cybersecurity principles into DevOps practices and CI/CD pipelines

Universitat de Girona   **Girona, Spain**
Bachelor of Science in Computer Engineering, ICT Specialization   *Sep. 2017 - Sep. 2023*
- **Relevant Coursework:** Software Engineering, Network Administration, Database Systems, Operating Systems

- **Final Project:** Template-based code generation tool for multiple microcontrollers

- **Technical Focus:** Information and Communication Technologies with emphasis on systems integration

Languages

Catalan: Native Speaker

Spanish: Native Speaker

English: Advanced (C1)