Sergio Meloni

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Summary

Software Engineer II at Microsoft with 4+ years driving security compliance, test infrastructure, and developer productivity for Microsoft Teams. Proven track record of delivering large-scale migrations (400k+ users), building CI/CD pipelines, and resolving 45+ Sev2 incidents. Expertise in Azure, DevOps, and cross-team collaboration across global engineering organizations.

Technical Skills

Languages: C#, TypeScript, JavaScript, Python, PowerShell, YAML, SQL, PHP
Cloud & DevOps: Microsoft Azure, Azure DevOps, CI/CD Pipelines, GitHub Actions, Docker, Kubernetes
Frameworks: .NET, Node.js, React, Angular, Playwright, Jest
Tools & Practices: Git, Agile/Scrum, Test Automation, Incident Management (DRI), Security Compliance

Professional Experience

Software Engineer II Jul. 2021 – Present
Microsoft – Teams Engineering Systems *Prague, Czech Republic*

- **Security & Compliance:** Led Ephemeral Tenant Migration of **400k+ users** and **400+ tenants**; extended PSTN capabilities for 63 tenants and 83k users, completing critical SFI security initiative on schedule.
- **Security Champion:** Closed **30+ S360 security bugs** in one quarter; migrated **100+ Azure resources** to Managed Identity; deprecated vulnerable authentication flows and remediated CVEs.
- **Accessibility Gates:** Implemented AOM Snapshot Gate blocking **9.34% of PRs** (3,157/33,803) with accessibility issues; AXE Core Gate blocked 1% of builds, ensuring compliance at scale.
- **Test Infrastructure:** Built Daily Run Pipeline for multi-OS testing (**482 tests** across Windows/Mac); generated **78+ bugs** in 6 months; onboarded 15 tests from 4 partner teams in under 1 month.
- **Platform Engineering:** Deployed Mac Hardware Pool across TMP-PR, FFv2, and CI pipelines, resolving critical agent shortages and expanding Mac test coverage organization-wide.
- **Developer Productivity:** Created Localization automation resolving **80-100 PR conflicts**, saving **30 min/day** (730 PRs/year); Visual Diff Tool saved developers 20-30 min per debugging session.
- **Incident Response (DRI):** Resolved **45+ Sev2 incidents** with ∼**5 hour average resolution time**; authored and improved TSG runbooks enabling faster mitigation across teams.
- **System Recovery:** Restored Skype Code Coverage Pipeline after **266 days of inactivity**; reduced Desktop team untriaged bugs from **50 to 0** via stale-bug automation.

Software Engineer Jan. 2019 – Jun. 2021
Deltatre *Turin, Italy*

- Architected and delivered scalable cloud services and web portals for FIFA and UEFA, handling high-traffic sporting events with **millions of concurrent users**.
- Built RESTful APIs and microservices using **.NET Core**, Angular, and Azure; implemented CI/CD pipelines for automated deployments.

Software Engineer Sep. 2016 – Jan. 2019
Crea Informatica (TicketOne Group) *Milan, Italy*

- Developed high-availability ticketing and cinema platforms processing **thousands of transactions daily** using .NET, Angular, and SQL Server.
- Designed database schemas and optimized queries for performance-critical booking systems.

Full Stack Developer Sep. 2013 – Sep. 2016
Jusp S.p.A. *Milan, Italy*

- Developed secure payment APIs for Italy's first mobile POS system; conducted penetration testing, XSS, and SQL Injection security assessments.
- Built end-to-end frontend/backend systems with custom reporting dashboards for financial transaction analytics.

Education

University of Milan Oct. 2021 – Apr. 2024
B.Sc. Computer Systems and Network Security *Milan, Italy*

- **Relevant Coursework:** Algorithms & Data Structures, Cryptography, Cybersecurity, Secure Software Design, AI/ML

Certifications

Microsoft Certified: Azure Fundamentals, Azure AI Fundamentals, Security/Compliance/Identity Fundamentals, Microsoft 365 Fundamentals, Power Platform Fundamentals
GitHub Certified: GitHub Copilot, GitHub Foundations
View all certifications

Projects

Socialup.it | *Founder & Technical Lead* 2015 – Present

- Founded and operate a registered Italian digital newspaper; architected infrastructure on Azure (VMs, MySQL, CDN).

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