Michael Xymitoulias

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Summary

Software engineer and technical leader with 7+ years of experience building developer tools, internal platforms, and web applications. Currently focused on CI/CD infrastructure, platform development, and building web/desktop applications at Oxford Nanopore Technologies. Looking to focus on developer experience, internal tools, and web development.

Skills

Languages: Typescript/Javascript, Python, C/C++, Go
Frontend: React, NextJS, TailwindCSS
Backend: FastAPI, Hono, gRPC
Databases: PostgreSQL, sqlite, Redis
DevOps & Cloud: Docker, Gitlab CI, Github Actions, AWS, Cloudflare, Vercel

Professional Experience

Technical Software Manager – Oxford Nanopore Technologies
04/2023 – Present

AI-Assisted Development & Developer Experience:
- Architected and maintain internal MCP servers, enabling AI-assisted development while keeping proprietary code and data in-house
- Authored reusable agent skills to accelerate common development workflows
- Built CLI installers for MCP servers and agent skills, for team-wide access
- Evaluated and established standards for AI coding agents across engineering teams

Internal Tools & Web Applications:
- Developed internal dashboards to improve platform operations
- Built a deployment management application for managing proprietary software packages
- Created a log aggregation and visualization platform, processing syslog data
- Developed an alternative FPGA programming tool for the manufacturing team, replacing a proprietary solution that was blocking their workflow
- Introduced modern C++ dependency management and build tooling, reducing compile times and improving supply chain security

Leadership:
- Manage a team of 4 software engineers, including mentoring, objective setting, and performance reviews

Software Engineer & Section Leader – RACE, UK Atomic Energy Authority
11/2021 – 04/2023

- Led a multi-discipline team with responsibilities including mentoring, recruitment, and technical direction
- Evaluated and compared web UI technologies versus Qt for system monitoring and control interfaces
- Established CI/CD pipelines, Git workflows, and Agile practices for the department

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Control Systems Software Engineer – RACE, UK Atomic Energy Authority
12/2017 – 11/2021

- Key contributor to CorteX, RACE's proprietary robotic middleware
- Built graphical interfaces using Qt (QML & Widgets) for system monitoring and control
- Primary technical interface with external partners
- Mentored year-in-industry students and contributed to recruitment

Qualifications

Technological Educational Institute of Chalkida
BSc - Automation Engineering (2017)

Publications

- *"CorteX: A software framework for interoperable, plug-and-play, distributed robotic systems-of-systems" – Ipek Caliskanelli, Matthew Goodliffe, Craig Whiffin, Michail Xymitoulias, Edward Whittaker, Swapnil Verma, Craig Hickman, Chen Minghao, Robert Skilton.*