



Maxime BARTHOMEUF

Engineering Student · Platform & DevOps

📍 Lyon, France

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🌐 @maxime-barthomeuf

PROFILE

Final-year Master's student at CPE Lyon, specializing in Software Design and Big Data. 12 months of Platform Engineering at BMW Munich: automation, orchestration, and a self-service platform for ~50 engineers. 4 years of freelance development. Seeking a 6-month final-year internship from February to July 2027 in Software/Platform Engineering or software architecture.

LANGUAGES

- **French** · native
- **English** · C1
- **Spanish** · B1
- **German** · basic (1 year in Munich)

IT SKILLS

- **Languages** · Python, TypeScript, Java, C, Dart
- **DevOps** · Linux, Bash, CI/CD (Zuul), Ansible, Docker, Git
- **Web** · React, Node.js, Flask
- **Data** · SQL, Pandas, NumPy
- **Mobile** · Flutter, Firebase

HOBBIES

- Running
- Guitar

EXPERIENCE

Platform Engineer (gap year)

July 2025 – July 2026 | BMW Autonomous Driving Campus, Munich

- Designed and deployed the firmware-flash automation and validation infrastructure for SafePOSIX, the middleware platform of the BMW Neue Klasse: replaced a manual sequence (image downloads, command-line flash, then configuration through a graphical interface) with unsupervised execution driven by a single configuration file.
- Built a distributed orchestrator (Python asyncio) running ~100 to 150 flash operations per night across a fleet of ~20 physical ECU test benches, with automatic result collection and analysis.
- Built a self-service supervision web app (Next.js, PostgreSQL) covering bench booking, flash triggering and version management, used daily by ~50 engineers, including non-technical project and release managers.

Environment · Python, Next.js, PostgreSQL, Bazel, DoIP/UDS, Zuul (CI/CD), Ansible, Linux/Bash, AWS.

Mobile Developer (Freelance)

August 2022 – July 2026 | ÖKO Europe

- Single-handedly built ÖKO Counter (Flutter/Firebase, iOS & Android), a filter-tracking app for ÖKO filtration products: wear tracking, replacement dates, reminder notifications. 50,000+ accounts created, 4 years in production.
- Owned the full lifecycle alongside my studies: client requirements, design, store releases, maintenance, and new features.

Sales Advisor

July – August 2024 | Leroy Merlin

In-store customer advice and sales; contributed to logistics and stock management.

EDUCATION

CPE Lyon, Graduate School of Digital Sciences

Master's Degree in Electronics, Telecommunications and Computer Science

September 2023 – 2027 (expected)

Specializing in Software Design and Big Data:

- Software architecture: microservices, design patterns, and secure system design
- Full stack and DevOps: web applications, REST APIs, and containerization
- Big Data and AI: machine learning and large-scale data processing

Institut des Chartreux

Classes Préparatoires aux Grandes Écoles (CPGE), Maths & Physics

Two years of intensive undergraduate coursework in mathematics and physics, preparing for France's selective national entrance exams to engineering schools.

2021 – 2023

CERTIFICATIONS

AWS Certified Cloud Practitioner

Amazon Web Services (AWS)

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