

ANGELO MELONAS

The Hague, Netherlands

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EXPERIENCE

Castor

Senior Software Engineer

Aug 2024 - Present

Amsterdam, Netherlands

- Promoted to Senior on the Identity team, leading several of Castor's most impactful infrastructure and product initiatives
- Architected and built a migration service end-to-end (PHP/Symfony) to orchestrate the transfer of 75,000+ active CDMS users and credentials to Keycloak across AU, EU and US regions, with an admin UI, statistics dashboard, batch tooling, and rollback capability — achieving zero downtime
- Led end-to-end delivery of a passwordless participant onboarding flow for clinical trials — from concept to production in ~6 weeks — coordinating across Identity, eConsent, and Enrollment Portal teams to significantly reduce participant drop-off and accelerate study enrolment
- Configured and delivered enterprise OIDC SSO integrations for multiple clients, managing IdP connections, session attribute mappers, and domain-based routing across products and regions
- Managed Keycloak production deployments, including custom SPI development in Java and formalising the Identity release process with deployment plan documentation
- Replaced legacy Datadog clients in eConsent with OpenTelemetry, creating a reusable SDK for standardised observability across projects
- Technologies: PHP, Symfony, Java, Keycloak, OIDC, OAuth2, MySQL, Docker, Kubernetes, Terraform, OpenTelemetry

Castor (Identity Team)

Software Engineer

Dec 2023 - Jul 2024

Amsterdam, Netherlands

- Founding member of Castor's Identity team, tasked with unifying authentication across all products under a single Keycloak-based identity platform
- Led the migration of 40,000+ eConsent users from a standalone Keycloak instance to the centralised Castor Identity platform — the first product fully migrated to the new identity system, executed with zero downtime
- Developed custom Keycloak SPIs in Java: Action Token endpoint for email-link registration, IdP discovery, and custom registration flows
- Created a PHP SDK adopted across Castor applications for Keycloak API integration and Machine-to-Machine access token generation/validation
- Contributed to the establishment of SSO configuration processes and documentation for enterprise customer onboarding (OIDC with Azure Entra ID, Okta)
- Technologies: PHP, Symfony, Java, Keycloak, OIDC, OAuth2, MySQL, Docker, Datadog

Castor (eConsent Team)

Software Engineer

Oct 2020 - Nov 2023

Amsterdam, Netherlands

- Joined the eConsent team at its inception, building a greenfield clinical trial product from the ground up over three years
- Core contributor across the full product lifecycle — from initial architecture and feature development through to production deployment and on-call support
- Drove performance improvements to reduce memory usage, including optimising Rights calculation (RBAC) and creating efficient SQL endpoints for subject retrieval
- Took ownership of support tickets, incident handling, and on-call rotation
- Technologies: PHP, Symfony, API Platform, Doctrine, MySQL, Docker, Ansible, Datadog, Keycloak

bunq

Backend Developer

Sep 2019 - Oct 2020

Amsterdam, Netherlands

- Backend engineer building fintech features — including an Apple Pay web payment portal and credit card payment integrations — while maintaining public SDKs, following strict TDD practices, and shipping via GitLab CI/CD pipelines
- Technologies: PHP, MySQL, Redis, GitLab

Leading Telecommunications Company

Junior Software Engineer

2017 - Aug 2019

Stellenbosch, South Africa

- Designed and implemented a full-stack browser-based UI for managing in-house microservices, using Spring Boot, MySQL, Vue.js, and gRPC/REST APIs with subscription-based web sockets
- Technologies: Java, Spring Boot, gRPC, MySQL, Vue.js, TypeScript

MWR InfoSecurity

Security Consultant Intern

Dec 2015

Rivonia, South Africa

- Security consultant training in finding and resolving website vulnerabilities

TECHNICAL STRENGTHS

| | |
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| Languages | PHP, Java, SQL, JavaScript, Python |
| Protocols & APIs | REST, gRPC, OIDC, OAuth2 |
| Frameworks | Symfony, Symfony Messenger, API Platform, Spring Boot, Vue.js |
| Databases & ORMs | MySQL, Doctrine, Redis |
| Infrastructure | Docker, Kubernetes, Terraform, OpenTelemetry, PagerDuty |
| IAM | Keycloak, SSO |

EDUCATION

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| University of Stellenbosch (Stellenbosch, South Africa) | <i>2016</i> |
| BSc (Hons) Computer Science | |
| University of Stellenbosch (Stellenbosch, South Africa) | <i>2015</i> |
| BSc (Mat Sc) Computer Science and Applied Mathematics | |