



CONTACT

View portfolio
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EDUCATION

**Bachelor of Science
Computer Science**
Technical University of
Darmstadt
2015–2021

Bachelor thesis: Deep
Multi Instance Learning for
syndrome detection based on
emergency department data.

LANGUAGES

German - native
English - very good, used
professionally

FOCUS AREAS

- Backend architecture
- REST APIs and data models
- Cloud and delivery
- Integrations and workflows
- Testing and observability
- Feature planning
- Scrum and teamwork
- LLM-assisted workflows
- Knowledge sharing

TOBIAS DIEHL

Cloud Backend Developer

Backend engineer with project experience since 2020. Focus: Java/Kotlin, Spring Boot, PostgreSQL and AWS. I build domain-oriented backend systems from API and data model through integrations, tests and infrastructure to monitoring and operations. In cross-functional Scrum teams I clarify requirements, share knowledge and use LLM-assisted workflows deliberately in reviews, tests and implementation.

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PROFESSIONAL EXPERIENCE

COSEE GMBH

09/2020–
present

Cloud Backend Developer

full-time since 01/2025; 09/2020–12/2024 working student in backend development with regular project responsibilities

- Continuous development of domain-oriented backend services and REST APIs in Java/Kotlin with Spring Boot, already with regular project responsibilities during the working-student period.
- Modeling PostgreSQL data structures, migrations and integrations, backed by unit, integration and contract tests.
- Implementation and evolution of AWS infrastructure, containerization, Terraform, Kubernetes, CI/CD, monitoring and production-oriented failure analysis.
- Direct coordination with customers and stakeholders; work in cross-functional Scrum teams with pair programming, code reviews, knowledge sharing and technical coaching.

SELECTED PROJECT EXPERIENCE

since 04/2025 Recruiting and Staffing Operations

Backend and cloud engineering for a platform around applications, profiles, documents, contracts and assignments. Implementation of domain use cases, REST interfaces, authorization, asynchronous document processes, integrations, stakeholder alignment and feature planning in a cross-functional Scrum team.

Tech: Kotlin, Spring Boot, PostgreSQL, Flyway, JPA/Hibernate, JobRunr, AWS Cognito, S3, SQS, SES, Textract, Microsoft Graph, SharePoint, Docker, Terraform, New Relic

02/2025–
06/2025

Mobility and Research Data Platform

Further development of a modular platform consisting of REST backend, worker components and mobile app. Focus areas: user and experiment logic, external mobility and routing services, RabbitMQ processing and containerized operations.

Tech: C#, .NET 8, ASP.NET Core, Entity Framework Core, PostgreSQL, RabbitMQ, Keycloak, Docker, Kubernetes, Helm, GitLab CI/CD, Flutter, StackIT

04/2024–
12/2024

Healthcare Staff Scheduling

Backend development for customer, employee, demand and assignment processes: documents, filters, metrics, activity log and search for suitable staff based on qualification, availability and distance.

Tech: Kotlin, Spring Boot, PostgreSQL, AWS Cognito, S3, AWS Location Service, HERE Maps, Terraform, Docker, New Relic

CORE STACK

JavaKotlin

Spring Boot

PostgreSQLREST

OpenAPIFlyway

JPA / Hibernate

CLOUD AND DELIVERY

AWS

DockerTerraform

KubernetesHelm

GitLab CI/CDCloudWatch

New Relic

ARCHITECTURE AND QUALITY

DDD

Hexagonal Architecture

Event-drivenJUnit

MockitoPactCucumber

Code Reviews

PRODUCT AND TEAMWORK

Feature Planning

Stakeholder Alignment

ScrumPair Programming

Technical Coaching

Cross-functional Teams

LLM WorkflowsTech Talks

ADDITIONAL PRACTICE

PythonFastAPI

C# / .NETSwift / SwiftUI

FlutterReact / TypeScript

KafkaRabbitMQ

Keycloak

FURTHER PROJECT EXPERIENCE

01/2024–03/2024

E-Commerce Authentication

Planning of technical system boundaries and backend implementation of an authentication process with user management, token validation, a dedicated domain model and database migrations.

Tech: Kotlin, Spring Boot, AWS Cognito, PostgreSQL, Flyway, REST

03/2022–12/2023

Marketplace Interfaces

Maintenance and extension of a Java service for importing, mapping, validating and exporting product, variant and inventory data. Designed and implemented a domain-specific mapping DSL based on JsonPath; processed multiple data formats, scheduled jobs, SFTP transfer, retry logic and monitoring.

Tech: Java, Spring Boot, PostgreSQL, Flyway, Hibernate, JsonPath, DSL, Quartz, SFTP, JSON, XML, CSV, JUnit, Datadog

02/2021–03/2022

Warehouse and Logistics Solution

Official architect role for backend concepts, system boundaries and connecting our microservices to other services. As Java expert I supported external developers with backend and testing practices; additionally design, implementation, deployment and event-driven communication.

Tech: Java, Quarkus, Spring Boot, Kafka, Pact, Cucumber, Kubernetes, Helm, Pulumi

10/2019–02/2021

Business Cockpit

Business cockpit with Spring Boot, AWS infrastructure, user management, OAuth/Auth0, data aggregation, monitoring and production-oriented unit and integration tests.

06/2020–12/2020

ENACT / CoraLibre and SPIEL.digital

Contributions to two public Cosee projects: Covid data pipeline and Spring Boot backend for CoraLibre as well as backend and AWS infrastructure contributions for the virtual SPIEL.digital.

KNOWLEDGE SHARING

01/2025

Tech Talk: Becoming an AI Engineer with AWS Cloud Quest?

Tech talk with Patrick Wolf about AWS Cloud Quest, the Generative AI role and game-based cloud training as practical technical learning.

PRIVATE PROJECTS

Boardgames AI Lab

In development

Game AI lab for board games with Spring Boot/Vaadin, rule-based game states, Monte Carlo Tree Search, training runs and policy/value evaluation.

Tech: Java, Spring Boot, Vaadin, MCTS, DL4J, ONNX

ReelHaven

In active development

Playable SwiftUI fishing game with catch mechanics, local progress, collection catalog, balancing and persisted game state.

Tech: Swift, SwiftUI, Game State, Savegames, XCTest

WinkelMeister

Published in the App Store

Flutter iOS app for construction-site calculations: triangles, spacing, cutting optimization and level measurement; domain logic separated from UI and covered with widget, controller and domain tests.

Tech: Flutter, Dart, iOS, SharedPreferences, Sensors, Widget Tests

RoBuddy

In use

Python and PyObjC app for animated macOS buddies with AppKit overlay, SpriteKit rendering, hotkeys and status overlay. Includes local config and app bundling.

Tech: Python, PyObjC, AppKit, SpriteKit, PyApp, macOS