

# Khadim Fall

📍 Munich, Germany

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## Education

**Hons** **Center for Digital Technology and Management (CDTM)**, Technology Management

- Member of the elite interdisciplinary program (<5% acceptance rate) combining entrepreneurship and technology.
- Part of ‘Center Life’ task force leading the development of the new internal campus management tool.
- Trend Seminar: Conducted research on ‘The Future of Software Engineering & IT Operations’.

Munich, Germany

Sept 2024 – present

**M.Sc.** **Technical University of Munich (TUM)**, Computer Science

- M.Sc. Admission secured (starts 2026-04). Top 5% in Algorithms & Data Structures.
- B.Sc. Thesis (Grade: 1.0): ‘Interactive 3D Space Rendering with Live Sensor Streams’, supervised by Prof. Nassir Navab. Two prototypes deployed at TUM NarvisLab.

Munich, Germany

Oct 2020 – Sept 2028

## Experience

**Peaklight Inc.**, Founding Engineer (5% Equity)

- Tech Employee #1. Built core infrastructure from scratch: Hetzner baremetal servers, K3s (Kubernetes), Terraform, Traefik, and Cloudflare.
- Architected backend pipelines to ingest, contextualize, and search news data—processing 30K+ context items and 500+ articles at launch.
- Established CI/CD workflows using GitHub Actions and Container Registry, defining the developer environment for future hires.

Munich, Germany

Oct 2023 – present

2 years 5 months

**Productlane**, Fullstack Engineer (Working Student)

- Implemented the ‘Docs’ feature: enabling customers to host product documentation publicly with embeddable widget.
- Engineered an AI chatbot using Vercel AI SDK, and Meilisearch to perform RAG on roadmaps, changelogs, and documentation.
- Stack: Next.js, Prisma, Replicache, Node.js.

Munich, Germany

Apr 2025 – present

11 months

**Technical University of Munich**, Software Developer (Working Student)

- Developed and maintained the TUM-Livestream platform used by the entire School of CIT student body.
- Maintained high-concurrency video streaming features using Go, Alpine.js, and Tailwind CSS.

Munich, Germany

Dec 2021 – Aug 2023

1 year 9 months

**SAP Canada**, Product Engineer Intern

- Reduced Spartacus Storefront installation script runtimes by 3x (30min→10min) by refactoring Bash installation scripts for parallel execution.

Montreal, Canada

Aug 2022 – Oct 2022

3 months

**Early Career**, Developer & Consultant (CHECK24, EY, Alyne)

- CHECK24: Developed at the ‘Contract Center’ using React and Express. Initiated lightning talks on XSS prevention.
- EY: Provided IT consulting, including ‘Best-Practice’ IT usage strategy and GDPR-compliant database deletion concepts.
- Alyne & SAE: Web development (First Class Honours). Winner of SAE Alumni Awards 2017 & 2020.

Munich, Germany

Apr 2017 – Oct 2021

4 years 7 months

## Projects

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### DBSP Sync Engine (Spooky)

- Building a sync engine using DBSP (Database Stream Processing) for incremental view maintenance.
- Rust/WASM core with TypeScript bindings for real-time data synchronization in SurrealDB.

Munich, Germany

Oct 2024 – present

### PawnTown & WhitePawn

- Built live over-the-board chess broadcasting platform with custom linear graph algorithm to predict and reconstruct missing game moves.
- WhitePawn: Cross-platform app connecting physical chessboards to engines. Winner: SAE Alumni Award for Best Tech Production 2021.

Munich, Germany

Mar 2021 – present

### Maltego Graph Engine (Team Lead)

- Led a team of 3 to build a Strategy Builder UI that compiles visual flows into optimized Cypher queries for Neo4j/Memgraph.
- Presented final prototype to Maltego stakeholders; outcome of TUM JavaScript Praktikum.

Munich, Germany

Oct 2023 – Feb 2024

## Hackathons

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### TUM.ai Makeathon (1st Place)

- Tackled CHECK24 challenge: Built a reverse bidding mechanism prototype. Won €2,000 prize.

Munich, Germany

Apr 2024

### IdeaHack! at WHU (1st Place)

- Won Project AMIGO Challenge (Dr. von Hauner Children's Hospital). Deployed privacy-preserving AI on secure hospital infrastructure to diagnose rare pediatric diseases.

Munich, Germany

Oct 2023

## Volunteering

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### START Munich, Community Member

- Developing START GPT, a chatbot based on GPT-4 for START members with knowledge of START Notion data.
- Implemented advanced Notion export using Neo4j for fast delta checking and partial updates.

Munich, Germany

Nov 2023 – present

### ReDI School of Digital Integration, Teacher

- Taught 'Python for Beginners' to kids from families with migratory backgrounds.
- Taught 'Introduction to Computer Science' to refugees, migrants, and Germans without access to digital education.

Munich, Germany

Aug 2022 – Aug 2023

## Skills

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**Stack:** Go, TS, Rust, Java, C, Dart | K8s, Terraform, Docker, GCP | React, Next.js, Neo4j, SurrealDB, LangChain

**Languages:** German (Native), English (C1), French (A1) | Interests: Boxing, Chess, Photography