Khadim Fall

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Education

MS	**Technical University of Munich**, Computer Science	Munich, Germany Apr 2026 – Sept 2028
Hons	**Center for Digital Technology and Management (CDTM)**, Technology Management • Selected for a highly competitive interdisciplinary program focusing on innovation, entrepreneurship, and digital technologies.	Munich, Germany Sept 2024 – present
BS	**Technical University of Munich**, Computer Science • Current Average Grade: 2.1 • Notable course: Algorithms and data structures, Grade: 1.7 (Top 5%)	Munich, Germany Sept 2020 – Sept 2025
BS	**University of Innsbruck**, Computer Science	Innsbruck, Austria Sept 2019 – July 2020
BS	**SAE Institute**, Web Development • Average Grade: First Class Honours • Awards: SAE Alumni Award 2017 (Best Web-Production), SAE Alumni Award 2020 (Best Web and Tech Production)	Munich, Germany Sept 2015 – June 2018

Experience

Productlane, Fullstack Developer (Working Student) • Responsible for the knowledge base development using LangChain, Meillisearch, Next.js, Prisma, Replicache, and Node.js.	Munich, Germany Apr 2025 – present 11 months
Peaklight Inc., Founding Engineer (Freelancer) • Developing core infrastructure using Kubernetes, Terraform, Docker, and Go. • Crafted the first prototype with Next.js and Tailwind and established the developer environment for new hires.	Munich, Germany Oct 2023 – present 2 years 4 months
Technical University of Munich, Software Developer (Working Student) • Developing the TUM-Livestream website using GO, Alpine.js & Tailwind.	Munich, Germany Dec 2021 – Aug 2023 1 year 9 months
SAP Canada, SAP Product Engineer Intern • Enhancing Bash installation scripts and fixing bugs in the Angular Schematics of the Spartacus Storefront App to improve functionality and reliability.	Montreal, Canada Aug 2022 – Oct 2022 3 months
EY, Consulting Intern • Provided IT support, including creating a 'Best-Practice' IT usage strategy for an automotive association's management. • Developed a database deletion concept for a leading manufacturer ensuring compliance with EU data protection laws.	Munich, Germany Aug 2021 – Oct 2021 3 months
CHECK24, Junior Software Developer • Developed at the 'Contract Center' using JavaScript, ReactJS, and Express. • Initiated lightning talks, with a presentation on 'Cross-Site-Scripting'.	Munich, Germany Mar 2019 – Aug 2019 6 months

Alyne GmbH, Software Developer — Munich, Germany — Apr 2017 – Sept 2018 — 1 year 6 months

- Developed and optimized the service platform, including a complex campaign function with JavaScript, Sails.js, Ember.js, Pusher.js, and Node.js.
- Performed performance enhancements in MongoDB queries.

Projects

PawnTown — Munich, Germany — Sept 2022 – present

- Developing an over-the-board chess event live broadcasting platform.
- Uses a custom graph algorithm to predict and reconstruct missing game information for accurate live game analysis and complete game files.
- More info at pawn.town

WhitePawn App — Munich, Germany — Mar 2021 – present

- Developing a cross-platform chess app compatible with all major physical chessboards.
- Recognized with the SAE Alumni Award for Best Web and Tech Production 2021.
- More info at whitepawn.app and khad.im/p/white-pawn

Maltego Graph Enrichment Engine — Munich, Germany — Oct 2023 – Feb 2024

- Developed a Graph Enrichment Engine for Maltego to transform graphs and generate new diagrams.
- Includes a Strategy Builder UI and resolver to translate strategies into single Cypher queries for Memgraph or Neo4j.
- Role: Team Lead (Outcome of 'JavaScript Praktikum' module at TUM).

Hackathons

TUM.ai Makeathon (1st Place) — Munich, Germany — Apr 2024

- Tackled a challenge by CHECK24: 'A prototype of a reverse bidding mechanism for a CHECK24 product'.
- Won first place and 2000 EUR prize money with team members Paola Andrea Herrera Trigo, Jaro Müller, and Viktor Presber.

IdeaHack! at WHU (1st Place) — Munich, Germany — Oct 2023

- Won the Project AMIGO Challenge hosted by Dr. von Hauner Children's Hospital.
- Developed and deployed AI training algorithms on a secure hospital platform to diagnose rare diseases in children.
- Team: Alexandre Mercier, Leon Buser, and Franz Stelzl.

Volunteering

START Munich, Community Member — Munich, Germany — Nov 2023 – present

- 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.

ReDI School of Digital Integration, Teacher — Munich, Germany — Aug 2022 – Aug 2023

- 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.

Skills

Languages: German (Native), English (B2), French (A1)

Programming: Go (Advanced), Dart (Advanced), TypeScript (Advanced), C (Advanced), Java (Advanced), Rust (Basics)

Cloud & DevOps: GCP (Advanced), Azure (Advanced), Docker (Advanced), Terraform (Advanced), Kubernetes (Basics)

Interests: Boxing, Ice Skating, Chess, Photography, Philosophical Reading & Discussions, Coding