

Alperen Adatepe



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About Me

M.Sc. Computer Science student at LMU Munich and **BMW Fastlane Scholar**. Full-stack engineer focused on scalable web apps, automation and AI-assisted tooling.

Professional Experience

BMW Fastlane Scholar, BMW Group – Munich April 2026 – Present

- 18-month **sponsorship program** combining an M.Sc. in Computer Science at LMU Munich with rotating practical assignments across BMW departments; Master's thesis written with BMW.

Full-Stack Software Developer (Working Student), BMW Group – Munich October 2025 – March 2026

- Built internal web apps and **APIs** automating engineering workflows, including **AI-assisted** features on top of existing processes.
- Integrated third-party services and refactored legacy code to improve **reliability, maintainability** and developer experience.

Technical Project Lead, PushQuantum – Munich Nov. 2024 – Nov. 2025

- Led a **five-person team** building the web presence and the **WiQi learning platform** for quantum technology education; owned technical roadmap and agile delivery (**Jira, Confluence**).

Academic Tutor, Ludwig-Maximilians-Universität München – Munich April – August, 2025 & 2026

- Led weekly tutorials for *Computer Networks and Distributed Systems* across **two summer semesters**; built *SequenceFast*, an interactive **TCP sequence-diagram tool** used in tutorials and self-study.

Full-Stack Web Development (Internship), BMW Group – Munich March 2025 – August 2025

- Developed web apps for **3D sensor placement** and **vibration analysis** in chassis development (**Angular/React, 3DC WebComponent**).
- Implemented a **developer caching system** that cut hot-reload times (~1.5 hours saved per working day) and measurably increased team productivity.

Junior Software Developer (Working Student), Titanom Technologies GmbH April 2023 – April 2024
– Munich/Germering

- Built modern web apps for client projects with **Next.js, React** (frontend) and **Node.js, Supabase/Drizzle** (backend) in an agile Scrum team.

Publications

Amin, R.M., Adatepe, A., Fernandes, D., Buschek, D., Butz, A. *Conversations in Space: Structuring Non-Linear LLM Interactions on a Canvas*. Submitted to **ACM UIST 2026** (under review). Write-up of my **Bachelor's thesis CanvasConvo**; co-author on system design, implementation and 24-participant field study.

Education

April 2026 – Present

Ludwig-Maximilians-Universität München, M.Sc. Computer Science (within the BMW Fastlane Scholarship).

Oct. 2022 – Feb. 2026

Ludwig-Maximilians-Universität München, B.Sc. Computer Science with Minor in Statistics (180 ECTS completed).

2014 – 2022

Willi-Graf-Gymnasium Munich, General Higher Education Entrance Qualification (Abitur).

Selected Projects

(Selection; 20+ projects in total.)

MyUniNotes (myuninotes.com) – Free, non-profit learning platform for LMU Munich CS & Statistics students; 1,500+ active users since 2024 across 15+ modules.

CanvasConvo (canvasconvo.adatepe.dev) – End-to-end full-stack LLM interface with a spatial canvas for branching conversations; basis for the UIST 2026 submission above.

Volunteer Work

Event Team Leader, NAWI – BMW Group Junior Initiative – Munich

July 2025 – Present

- Lead a 15-person event team strengthening exchange between students within the BMW Group; own event finances and budget planning.

Skills

</> Programming Languages: TypeScript, JavaScript, SQL, Java, C, R, Python (basic), Haskell (basic)

⚙️ Frameworks & Tools: React, Next.js, Node.js, Express, Angular, Tailwind CSS, Supabase, PostgreSQL, SQLite, Drizzle, Prisma, REST/GraphQL APIs, Docker, Vite, Git, GitHub, Vercel, n8n, OpenAI / Gemini APIs

💻 IT Skills: Database design and querying (SQL, Supabase, basic MS Access), automation tools and scripts, API design and integration, data collection, conversion, verification and automated report generation, basic cloud experience.

👥 Soft Skills: Analytical thinking, problem-solving, self-initiative, leadership, communication, teamwork, enthusiasm for new technologies.

🍏 Operating Systems: Linux, macOS, Windows

🗣️ Languages: German & Turkish (native, bilingual), English (fluent, C1)