Tony Meißner

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EDUCATION

Baden-Wuerttemberg Cooperative State University (DHBW)　　　　　　　Stuttgart, BW
Bachelor of Science in Computer Science　　　　　　　　　　　　　　　Oct. 2022 – Sep. 2025
Grade: 1,8

Chung Ang University　　　　　　　　　　　　　　　　　　　　　　Seoul, Gyeonggi
Semester Abroad with focus on Computer Science　　　　　　　　　　　Mar. 2024 – Jun. 2024
GPA: 3,90 (Grade: 1,5)

Professional Secondary School Centre for Electrical Engineering　　　　Dresden, SN
General university entrance certificate (Abitur) with dual vocational education　Aug. 2017 – Jul. 2021
Grade: 2,3

EXPERIENCE

Corporate Student - in Computer Science　　　　　　　　　　　　　Stuttgart, BW
Mercedes-Benz Tech Innovation　　　　　　　　　　　　　　　　　　Oct. 2022 – Present
- Designed and architected API solutions, strengthened cloud computing security, performed data analysis in Databricks, and developed demand-forecasting models in Palantir Foundry. During this work, I gained hands-on expertise with Microsoft Azure (Functions, Data Factory), Databricks, Foundry, Python, Apache Spark, and a variety of machine learning and forecasting techniques. Applied operations research methods to optimize demand forecasting and engineered microservices architectures for scalable deployments. Developed an agentic AI system using vision-language models for image grounding with natural language.

Work & Travel　　　　　　　　　　　　　　　　　　　　　　　　USA, Australia
Farm Work　　　　　　　　　　　　　　　　　　　　　　　　　　Oct. 2021 – Aug. 2022
- Gained international work experience, developing adaptability and cross-cultural communication skills.

Vocational training - IT Specialist/Software Development　　　　　　　Dresden, SN
Timeline Financials GmbH & Co. KG　　　　　　　　　　　　　　　　Aug. 2018 – Sep. 2021
- Developed REST APIs for Timeline financial and payroll accounting using ASP.NET Core, MVCS architecture, JWT, SQL and implemented security measures like authentication and authorization. Applied Software Engineering best practices and microservices design patterns to ensure efficient SQL statements and seamless system integration. I contributed to customer projects for the in-house ERP system by programming Powerscript and .Net extensions for machine connections, print services, and List & Label printouts.

Summer internship　　　　　　　　　　　　　　　　　　　　　　Dresden, SN
Infineon Technologies AG　　　　　　　　　　　　　　　　　　　　Aug. 2017 – Aug. 2017
- Internship during summer break; participated in workshops on wafer production and semiconductor technology. Gained hands-on experience in embedded programming.

LEADING EXPERIENCE

Product Owner - Financial Accounting System Backend　　　　　　　　Dresden, SN
Timeline Financials GmbH & Co. KG　　　　　　　　　　　　　　　　Jan. 2021 – Sep. 2021
- Managed the development of a new version of the financial and payroll accounting systems backend. Coordinated with cross-functional teams, gathering requirements and aligning technical and business objectives. Acted as the product owner, ensuring project milestones and quality standards were met.

Product Owner - InterConnect　　　　　　　　　　　　　　　　　　Stuttgart, BW
Mercedes-Benz Tech Innovation　　　　　　　　　　　　　　　　　　Feb. 2023 – Present
- Oversee the InterConnect project, an internal initiative aimed at enhancing team collaboration and project structure. Manage on-site meetings, coordinate with team members, and structure the project roadmap. Ensure effective communication between stakeholders and team members to drive project success.

PROJECTS

Restaurant Website | *Website*   Jul. 2025
- Enterprise-grade restaurant management: architected a high-throughput Prisma/PostgreSQL data layer; fortified a JWT/CSRF-hardened Express.js API (80+ endpoints); engineered fully automated email workflows, real-time reservation engine, staff portal and event management system using Frontend Development with Node.js and React; implemented contact-inquiry workflows and analytics dashboards; integrated MinIO S3 storage for media and menu assets. Orchestrated a Docker-Compose microservices ecosystem with GitHub Actions-driven CI/CD for seamless production rollouts on cloud platforms.

Tree Disk Analyzer | *GitHub* | *Website*   Mar. 2025
- Engineered a complete pipeline for tree disk image analysis using Deep Learning and Machine Learning techniques. Trained two YOLOv11 models to detect tree disks and the pith. Distributed Python modules via PyPi and exposed functionalities with FAST API. Developed the mobile frontend using React Native, Expo, and NativeWind for Frontend Development; deployed with Docker and CI/CD on cloud platforms.

Portfolio Website | *Website*   Mar. 2025
- Designed a personal portfolio with Figma using Software Engineering principles. Implemented using TypeScript, React, and Next.js for server-side rendering and Frontend Development, with interactive 3D animations via Three.js. Styled with Tailwind CSS, ShadCN, and extended Framer Motion. Deployed on Coolify using Docker and CI/CD on cloud platforms.

Paddock Monitoring | *GitHub* | *Website*   Nov. 2024
- Implemented an IoT paddock monitoring solution using ESP32 microcontrollers for sensor data collection, transmitted via an Express API built with Software Engineering best practices. Programmed with PlatformIO and C++; developed the mobile application using React Native and Expo for Frontend Development. Secured data in PostgreSQL with Prisma ORM and deployed with Docker and CI/CD on cloud platforms using microservices architecture.

Movie Actor Ranking | *GitHub* | *Website*   Jun. 2024
- Developed an actor performance ranking system using movie dialogues from IMSDb and IMDb with NLP and Machine Learning techniques. Leveraged Python for web scraping (BeautifulSoup, Selenium) and implemented a vector space model using Operations Research algorithms. Deployed a React, TypeScript, Next.js frontend for Frontend Development and a FAST API backend on MS Azure with Docker and CI/CD on cloud platforms.

Cancel Culture Impact | *GitHub*   Jun. 2024
- Analyzed the societal impact of cancel culture on public figures using Python with NLP and Machine Learning techniques. Aggregated data via APIs and web scraping (BeautifulSoup, Selenium); performed AI-driven sentiment analysis using GenAI and visualized results with Matplotlib and Seaborn. Integrated a self-hosted LibreTranslate API for translation and deployed on cloud platforms.

Information Retrieval System | *GitHub* | *Website*   Apr. 2024
- Engineered a custom newspaper article retrieval system akin to Google Search using advanced NLP techniques and Machine Learning algorithms in Python. Developed with a backend FAST API and Next.js frontend for Frontend Development hosted on MS Azure via Docker and CI/CD on cloud platforms with microservices architecture.

HOBBIES AND LANGUAGES

Hobbies: Fitness, Volleyball, Coding, Hiking, Photography, Traveling, Cooking

Languages: German (Native), English (Fluent), French (Basic)

TECHNICAL SKILLS

Languages: Python, C, C++, C#, JavaScript, Java, SQL, R, Bash

Developer Tools: Git, Docker, VS Code, ERP, Terminal, CI/CD, Linux, MS Azure, Azure Data Factory, Databricks, Figma, Adobe Photoshop, Adobe Lightroom, Adobe Premiere Pro

Libraries/Frameworks: Node.js, React, Next.js, NextAuth, Vue.js, Angular, Prisma, Drizzle, PostgreSQL, Express, NestJS, FastAPI, Flask, Spring Boot, LibreTranslate, Three.js, .NET MAUI, Entity Framework, Apache Spark, NLP/GenAI, Machine Learning, Deep Learning, VLM