



CONTACT

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DEVELOPMENT

Node.js TypeScript
Python Rust C++
React & React Native
Electron Qt 5
HTML & CSS

ARTIFICIAL INTELLIGENCE

LLM integration (GPT · Claude · Mistral)
RAG & vector search
Embeddings
Local models (Ollama)

INFRASTRUCTURE & OPERATIONS

Linux (Server · Desktop · Embedded)
Docker & Podman
Kubernetes
Dokploy & Traefik NGINX
Git & CI/CD
MongoDB / NoSQL
SQL / PostgreSQL Redis

PREVIOUSLY USED

PHP Java Objective-C

LANGUAGES

German - native speaker
English - fluent

Ing. Alexander Hochreiter

Software Engineer & Architect

More than ten years of experience in software development - from embedded systems in C++ to scalable web platforms with Node.js and React. Self-employed since 2015 with my own company, and developer of the in-house microservice framework "Rebase". Current focus: AI-powered solutions - from LLM integration through RAG pipelines to locally operated models.

SELECTED PROJECTS

Incident Report Management

at an Austrian public transport company

If a train driver - e.g. of a tram - cannot continue the journey due to a vehicle defect or an illegally parked car, this is reported to the control center. The control center enters the information relevant to passengers into our software - informing more than 2.4 million passengers about the disruption in real time.

Stack: ReactJS, Material-UI, NodeJS, ExpressJS, PostgreSQL, Redis, RabbitMQ, Linux, Windows Active Directory

Inventory and Service Management

at Ars Electronica Linz

The existing ERP software was redeveloped to better address the needs of the business cases.

Stack: NodeJS, ExpressJS, MongoDB, NoSQL, Redis, Docker, Kubernetes, Linux

Passenger Information Systems Redevelopment

at an Austrian public transport company

Modernization and redevelopment of the on-board passenger information system of Stadler trains for a Lower Austrian transport operator. The scope covered the train drivers' human-machine-interface devices, hardware and software of the interior monitors, and the integration with the train control unit. Third-party software was incorporated via a VMware integration.

Stack: ReactJS, NodeJS, ExpressJS, Redis, VMware, Embedded Programming, OS Development, Linux

WORK EXPERIENCE

AI-Powered Customer-Contact Automation

ongoing

Development of a platform for the AI-powered automation of customer contacts handling an agency's business cases: LLM-based chat automation, RAG pipeline with vector search, media processing and messenger integration.

Stack: TypeScript, Node.js, Express, React, MongoDB, Redis, BullMQ, Qdrant, MinIO/S3, LLM-APIs (GPT · Claude · Mistral), Docker

Software Development - Next:Urban

since 04/2022

Development of passenger information systems for the fleets of the Mariazellerbahn and Wachaubahn: driving the display and audio hardware, emergency-call protocol handling, and a navigation screen for the train driver including arrival prognosis and embedded systems engineering according to customer requirements.

Stack: Electron, Preact, Node.js, Redis, Git, DevOps, Custom Linux, FFmpeg

EDUCATION

09/2006 - 06/2012

HTL Ottakring - Computer Science (Ing.)

Day and evening school. Graduated with distinction (Matura). Diploma thesis: voxel-based, tiled terrain editor / game construction kit.

CONTINUING EDUCATION

06/2015

EBC*L Level A

Buchhaltung Perfekt

Accounting course

Steuerliche Grundlagen

Tax fundamentals course

WORK EXPERIENCE (CONTINUED)

Startup: IMOS - imos.or.at

since 01/2021

Development of a management platform for Islamic religious associations based on the in-house framework "Rebase". Member apps in React Native for Android and iOS. Features (web and native): social/news feed, chats, prayer-time planner, prayer-location navigator.

Stack: "Rebase", Podman (Docker), Node.js, ReactJS, React Native, FFmpeg, Redis, MongoDB, NGINX, Git, DevOps

Startup: Tutoring Placement Platform

02/2017 - 01/2021

Independent planning and development of a tutoring placement platform, alongside freelance and salaried work.

Stack: "Rebase", Podman (Docker), Node.js, ReactJS, React Native, FFmpeg, Redis, MongoDB, PostgreSQL, NGINX, Kubernetes, Stripe.js (payments and automated tutor payouts), Git, DevOps

Software Development - Fleischwaren Berger

10/2018 - 12/2019

Further development and redevelopment of the existing ERP software on an IBM AIX system in IBM XL C. Automation of various processes with Python.

"Medienverwaltung Neu" - Studio Enzenhofer, Linz

01/2018 - 03/2018

Implementation of a new web interface and backend for internal use.

IT Support - CPS-IT for General Electric Jenbacher

06/2017 - 09/2017

Maintenance, servicing and preparation of various workstations in compliance with GE's security requirements.

Software Developer - Aeoon Technologies

05/2016 - 12/2016

Development for desktop and embedded systems with the Qt and Boost frameworks in C++11.

Various Freelance Engagements

03/2015 - 05/2016

Support of existing AppSrv customers (Deniba) and further development of existing and new AppSrv projects. Services offered: development of custom software solutions, consulting, and 1st-level support.

Software Developer - Deniba

11/2012 - 12/2014

Realization of projects - from planning through development to on-site deployment and customer training. Start of the AppSrv project.

System Administrator - Health+Life

01/2011 - 11/2012

1st-level support.

Summer Internship - SVC

06/2008 & 07/2009

1st-level eCard support.

