Christoph Sonntag

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Skills

Data Analysis	Tensorflow, numpy, seaborn, Flower, PyTorch
Server-Side	Python, Java (Spring), Scala, PHP, JavaScript (TypeScript, node.js)
Client-Side	Vue.js, React
Infrastructure	PostgreSQL, Redis, Docker, AWS EC2;S3;Sagemaker, MODBUS
Languages	English (full proficiency), German (native), French (basic)

Education

M.Sc. Computer Science
University of Vienna, Austria
Mar 2024

- Research on Backdoor Attacks on Language Models in Federated Learning, Disentanglement with Variational Autoencoders and Digital Humanism
- Projects on Data Analysis and Deep Learning (Python, Tensorflow, Jupyter), Cloud and Edge Computing (GCP, AWS), Visual Data Analysis (three.js, Tableau) and Security

B.Sc. Internet Computing
University of Passau, Germany
Dec 2020

- Thesis on ResNets, enabling very deep neural network architectures (implemented in Python using Tensorflow)
- Projects on web microservices using Spring, Docker and Kubernetes

Work Experience

Software Engineer
Self-employed, Germany
Jun 2013 –

- Software Development with Python/Django, PHP, node.js, redis, Docker and Jenkins
- Engineering and Implementation of contract-based projects

Software Developer
dialog sued, Munich, Germany
Jan 2016 – Oct 2020

- Web Development with PHP and Typescript
- Implementation of WordPress themes and plugins or websites from scratch.

Lecturer
ZKK, University of Passau, Germany
Oct 2017 – Jul 2018

- Block-courses introducing students to Programming with Python
- Responsible for course development and teaching of classes (rated 4.47 avg. score on a scale from 1-5, worst to best)

Projects

MMetering, Smart Metering App for Community Houses, contract-based — 2018

- Dockerized Django application using Redis as a message broker for scheduling requests to connected meter on a bus using the MODBUS protocol

Clossyne, Distributed key-value store using Akka and Scala — 2023

- Based on binary search-tress, it can be easily accessed by a dictionary-based data access API and makes use the Actor model

Further Experience

Summer Institute of Computational Social Sciences, Università degli Studi di Roma "Tor Vergata" — Jun 2023
Elected Student Representative, University of Passau — Apr 2016 – Aug 2020