

Gerrit Egnew

Bioengineer turned software engineer. Inspired by difficult projects.

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WORK EXPERIENCE

Zeit Medical

Sr. Software Engineer

May 2022 - Present

- Zeit is an early-stage company working to create automated stroke-detection systems. I joined as the first software engineer.
- Designed and built a data pipeline ingesting data from hundreds of devices worldwide.
- Designed internal APIs and dashboards to manage study sites, patients, devices, shipping and returns.
- Oversaw and helped engineer a React Native app for provisioning wifi and onboarding new patients to the Zeit system.
- Designed and built a machine learning infrastructure and streaming analytics platform.
- Helped grow the team from four to eight.
- Helped oversee construction of new hardware, including a new EEG-recording headband and a new IoT device.

CellCarta

Consulting Developer

July 2019 - August 2020

- CellCarta is a provider of next-generation drug discovery assay platforms. I work on CellEngine, a fast end-to-end flow cytometry analysis tool, primarily developing R and Python toolkits for interacting with the CellEngine API, as well as an Express.js app and underlying data analysis libraries (in Node).

Relayr, GmbH (Munich, DE)

Data Engineer

November 2019 - July 2020

- Helped develop a streaming analytics pipeline for industrial IoT.
- Leveraged Sprint Boot, Kafka, and other tools to create and improve Java and Python microservices for a machine-learning analytics backend.
- Collaborated with data scientists to design large-scale ML systems.
- Worked with cloud, hardware, QA, and DevOps teams to test and deploy new services and features.

Wyssen Avalanche Control (Reichenbach im Kandertal, CH)

DevOps Engineer

August 2020 - August 2021

- Supported the development and modernization of a large PHP web app, a Vue app, and a collection of Python and Node microservices for control, management, and maintenance of avalanche control towers (fixed explosive-ordnance deployment towers).
- I worked primarily with PHP, Javascript, Python, RabbitMQ, and Docker. I also worked to develop new team workflows, organizational methods, and assisted in hiring.

Tribe AI

Data Engineering & ML Ops Consultant

Dec 2021 - March 2022

- As a member of the Tribe community, I work on a variety of consulting projects, both solo and as part of a team.
- Recently, I worked with a Swiss audiology firm to develop and grow their business analytics and data science capacities, working within the Azure ecosystem to automate machine learning processes, develop engineering best-practices, make new hires, and help data scientists work more easily, quickly, and powerfully.
- Our team saved this firm over 100,000 CHF per year in improved developer efficiency.

EDUCATION

Montana State University

Bachelor, Biological Engineering

August 2012 - April 2018

SKILLS

- Python (pandas, scikit-learn, FastAPI)
- DevOps (AWS, Azure, Terraform, GH Actions, Jenkins)
- MLOps (DVC, MLFlow, Sagemaker)
- Data Engineering (Kafka, MQTT, MindsDB, Airflow)
- Databases (MongoDB, CouchDB, TimescaleDB, AWS Timestream, Redis, PostgreSQL)
- Internal Tools (Retool, Slack integrations, Notion, Jira)
- Node (general backend, React Native)
- Embedded/IoT (Bluetooth, wifi, IPC)