GERRIT EGNEW

Dorfgasse 40 ◇ 3805 Goldswil bei Interlaken ◇ Switzerland

(+41) · 76 · 579· 3950 ◇ g.egnew@gmail.com

EDUCATION

Montana State University, Bozeman   *May 2018*
B.S. in Biological Engineering

PERSONAL DETAILS

Nationality	USA
Visa Status	Switzerland, B Permit with self-employment approval
Languages	English (native), German (good), Bernese German (good)

EXPERIENCE

Zeit Medical   May 2022 - November 2024
Sr. Software Engineer   *San Francisco, CA / Remote*

· Pioneered software development as the first engineering hire at Zeit, an innovative company focused on automated stroke-detection systems.
· Architected a robust data pipeline that seamlessly ingests data from hundreds of devices globally.
· Designed and implemented internal APIs and dashboards for efficient management of study sites, patents, devices, and logistics.
· Developed a cutting-edge machine learning infrastructure and a state-of- the-art streaming analytics platform.
· Led the engineering of a React Native app for streamlined WiFi provisioning and patient onboarding.
· Contributed to team expansion, facilitating a doubling of team size.
· Supervised the development of advanced hardware solutions, including a next-generation EEG-recording headband and IoT devices.

Tribe AI   December 2021 - April 2022
Data Engineering & ML Ops Consultant   *New York / Zürich / Remote*

· Collaborated with a Swiss audiology firm to enhance their business analytics and data science capabilities within the Azure ecosystem, implementing automated machine learning processes and engineering best practices that resulted in over 100,000 CHF annual savings through improved developer efficiency.

CellCarta   July 2019 - November 2021
Consulting Developer   *Remote*

· Developed advanced R and Python toolkits for seamless integration with the CellEngine API, enhancing end-to-end flow cytometry analysis.
· Contributed to the core Express.js application, optimizing performance and functionality for next-generation drug discovery.
· Engineered robust data analysis libraries in Node.js, driving efficiency and accuracy in assay platform capabilities.

Wyssen Avalanche Control   August 2020 - August 2021
DevOps Engineer   *Reichenbach im Kandertal*

· Spearheaded the development and modernization of a large-scale PHP web application, Vue.js app, and a suite of Python and Node microservices for avalanche control systems, leveraging RabbitMQ and Docker for enhanced performance and scalability.

- Championed the creation of innovative team workflows and organizational methods, contributing to a more efficient and productive development environment.
- Played a key role in talent acquisition, helping to build a high-performing DevOps and development team.

Relayr, GmbH   November 2019 - July 2020
Data Engineer   *Munich*

- Developed a high-performance streaming analytics pipeline for Industrial IoT, utilizing Spring Boot, Kafka, and Java and Python microservices for machine-learning analytics.
- Collaborated with data scientists to architect and implement large-scale ML systems.
- Partnered with cloud, hardware, QA, and DevOps teams to successfully test and deploy new services and features.

Enviromin, Inc   May 2018 - July 2019
Biological Engineer   *Bozeman*

- Aided in the design, testing, and implementation of bioreactors, bioremediation plan development, kinetic modeling, and data management/analysis.
- Designed and managed laboratory experiments, wrote proposals and technical reports, managed supplies and purchasing, interfaced with clients, presented findings at conferences, and prepared budgets.

TECHNICAL STRENGTHS

Computer Languages	Python, Javascript, Typescript, Java, PHP
Protocols & APIs	REST, HTTP, JSON, Bluetooth/BLE, IPC, MQTT, UART, FTP, SSH
Databases	PostgreSQL, MongoDB, CouchDB, Sqlite, TimescaleDB, Timestream, Redis
DevOps	Docker, AWS, Azure, Terraform, GH Actions, Jenkins, Kubernetes
MLOps	MLFlow, DVC, Sagemaker
Data Engineering	Kafka, MQTT, Airflow, Data Warehousing
Tools	Vim, tmux, Retool, Slack integrations, Notion, Jira