

Michael Sparre

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micsparre.github.io

github.com/micsparre

Work Experience

Founding Engineer, Grepr – San Francisco, CA Jan 2025 – Present

- Manage the deployment and operational lifecycle of backend services within a Kubernetes orchestrated AWS Environment, ensuring system observability for containerized applications
- Enhanced data pipeline resilience and data integrity by designing and implementing robust error handling and retry mechanisms for asynchronous data writing processes, preventing data loss during transient system failures

Software Engineer, Gilead Sciences – Bay Area, CA May 2021 – Dec 2024

- Architected a self-hosted monitoring solution using Grafana and Prometheus, integrating multiple data sources to provide comprehensive insights into AWS data lake operations and Postgres-based data products
- Deployed 12 Grafana dashboards for Cloud services and infrastructure that helped identify cost saving measures to reduce monthly spend by more than 25%
- Coordinated Python development efforts of 10+ projects as the lead developer in a business-facing development team, building robust data processing systems
- Implemented secure data ingress and egress processes using SFTP and APIs, ensuring seamless and secure connectivity with external vendors

Projects

jaku (anime ranking + recommendation web app) github.com/micsparre/jaku

- Engineered a content recommendation system by integrating GPT-4 API, implementing prompt engineering techniques to enhance content relevance and user experience
- Developed a modern, responsive full-stack web application using Python, TypeScript, and React

Fantasy Premier League Newsletter github.com/micsparre/fpl-newsletter

- Constructed an automated data pipeline using Python, integrating with the Premier League's fantasy API to extract, process, and analyze daily player statistics
- Designed a data visualization workflow, leveraging Python libraries to generate dynamic, insightful charts; summarizing fantasy league statistics, and scheduled weekly report distribution via email

Skills

Languages: Python, Java, Bash, SQL, TypeScript

Tools & Technologies: Git, AWS, Apache Flink, Terraform, React

Education

University of California, Berkeley

May 2022

Bachelor of Science in Electrical Engineering and Computer Sciences

3.8 GPA