

Michael Sparre

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micsparre.github.io

github.com/micsparre

Work Experience

Software Engineer, Gilead Sciences – Bay Area, CA

May 2021 – Present

- Coordinate Python development efforts of 5 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 over 5 external vendors
- Executed the migration of more than 20 data sources and processes from on-prem servers to AWS, optimizing data intake, processing, and export through S3, Lambda functions, and Glue scripts
- Automated the generation of AWS Terraform infrastructure and GitHub Actions CI/CD files by creating a custom-built Python CLI tool, reducing deployment time from over 1 day to less than 5 minutes
- Developed an internal React application with TypeScript to streamline project status tracking across the department

Projects

Jaku (anime ranking + recommendation web app)

github.com/micsparre/jaku

- Created a content recommendation tool, applying prompt engineering techniques with the GPT-4 API
- Built the back-end infrastructure using the Django framework to manage API requests from the front-end
- Architected a TypeScript React application styled with Tailwind CSS to ensure a dynamic and responsive user interface

Fantasy Premier League Newsletter

github.com/micsparre/fpl-newsletter

- Constructed a Python script for daily execution, utilizing the Premier League's fantasy API to extract and compute daily deltas
- Designed insightful chart templates summarizing the latest gameweek and cumulative season statistics for the league and distribute them weekly via email using the Mailjet API

Skills

Languages: Python, Bash, SQL, JavaScript, TypeScript, HTML

Tools & Technologies: Git, AWS, Terraform, GitHub Actions, Docker, React, Django

Education

University of California, Berkeley

May 2022

Bachelor of Science in Electrical Engineering and Computer Sciences

3.8 GPA