

# Michael Sparre

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[micsparre.github.io](https://micsparre.github.io)

[github.com/micsparre](https://github.com/micsparre)

## Work Experience

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**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

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**Jaku (anime ranking + recommendation web app)** [github.com/micsparre/jaku](https://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](https://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

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

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

## Education

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**University of California, Berkeley**

Bachelor of Science in Electrical Engineering and Computer Sciences

May 2022

3.8 GPA