

Michael Martyn

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EXPERIENCE

Senior Full-Stack Software Engineer

Jan. 2024 – Present

Profluent Bio

Berkeley, CA

- Proposed and developed an information management system (Django, HTML/CSS/Javascript, Postgres, NoSQL, and Docker) to ingest, store and analyse data from Machine Learning, Bioinformatics, and Biology teams
- Implemented REST API endpoints in the Django app to allow secure data access by users and other services
- Developed software product roadmaps by synthesizing end-user requirements with technical capabilities
- Setup reporting dashboards to enable non-technical staff to gain insights into our systems
- Developed event and batch pipelines to process terabytes of data from internal data sources and external vendors

Software Engineer

Feb. 2021 – Feb. 2023

Impossible Foods

Redwood City, CA

- Proposed and built a full-stack web app (Django, Postgres) to transition R&D teams from disparate data stores (Google Sheets & Excel) to a centralised database to enable improved data integrity, collaboration, and analytics
- Mentored software / data science team on software industry best practices (testing, documentation, code reviews)

Technical Consultant

Jul. – Sep. 2022

Topaz Biosciences (product released as hypothesis.bio)

Remote

- Provided software, data, and AWS guidance for founding team
- Developed AWS Batch pipelines to process terabytes of proprietary metagenomic data

Bioinformatics Engineer

Feb. 2017 – Feb. 2021

Zymergen

Emeryville, CA

- Worked cross-functionally between Technology and the R&D / Products departments in an essential role that ensured scientists requirements were efficiently translated into software and data products
- Developed scalable AWS infrastructure to analyse one of the largest metagenomic databases in the world

PROJECTS

Workout Budi | *Google Cloud, Python, Machine Learning, Django, MySQL, Docker*

Oct. - Dec. 2023

- Developed a full-stack web application using a Django backend and a HTML/CSS/JS/HTMX frontend
- Implemented a machine learning model to suggest potential workout buddies based on various attributes
- Implemented Strava OAuth login to collect and process data from user's Strava account
- Implemented continuous integration and continuous delivery (CI/CD) using Github Actions and Cloud Build

Health Analytics | *AWS, Python, Airflow, PySpark, Plotly, REST API*

Sep. 2023

- Developed AWS ETL data pipelines to analyse 1 year of Apple Watch data and 6 years of Garmin data
- Analysis results interactively displayed on personal website (MySQL, Django, Plotly)

EDUCATION

University of Newcastle upon Tyne

United Kingdom

Master of Science in Bioinformatics, School of Computer Science

Sep. 2015 – May 2016

University of Newcastle upon Tyne

United Kingdom

Bachelor of Science in Molecular Biology, School of Biology

Sep. 2012 – May 2015

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript, HTML/CSS

Web: Django, Flask, REST APIs

Data: Event-driven architecture, Batch, Airflow, PySpark, Relational databases (Postgres, MySQL)

Developer Tools: Google Cloud, AWS, Git, Docker, Terraform CI/CD

Libraries: Pandas, Scikit-learn, Plotly, Matplotlib