Alberto Morón Hernández

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Software engineer at ease across the stack and at home in cross-functional teams. Keen on robust APIs, DevOps practices and ensuring all disciplines have a seat at the table. I use automation & consistency to enable teams to focus on delivery.

Languages: Python, SQL (Postgres), Bash, Java, TypeScript
Frameworks: FastAPI, Pydantic, SQLAlchemy, Alembic, Django, React, Angular, pytest, Selenium
Tools: Git, Docker, GitLab pipelines & GitHub Actions, Terraform, Google Cloud, make/just, pre-commit
Methodologies: peer review, Agile, DevOps, CI/CD, IaC, trunk-based flow, release automation

EXPERIENCE

Senior Software Engineer
Sep 2022 – present
University of Cambridge
Cambridge & remote, UK

- Collaborate with Product Managers, User Researchers, Business Analysts and fellow engineers on data-driven & cloud-first services that enable Cambridge's admissions process.
- Use Agile methods to discover user needs and iterate on effective ways of working with stakeholders.
- Build and maintain APIs that are testable, scalable and secure.
- Write and peer-review code across the stack: Python (FastAPI, Django), Terraform (Google Cloud), Bash & YAML (pipelines), TypeScript (React).
- Adopt DevOps practices: containers, IaC, GitLab CI/CD, automation, monitoring, 12-Factor.
- Co-lead interviews for software engineers.

Software Engineer
Feb 2019 – Apr 2022
Wealth Club
Bristol, UK

- Enabled flagship site to grow 94% YoY and handle 10x traffic spikes. Made it 3.5x cheaper to run and increased SEO score with serverless Cloudflare Workers.
- Reduced costs: performed attribution modelling to understand clients' response to marketing campaigns and halved the monthly CDN bill by refactoring to alternatives within Cloudflare.
- Analysed and visualised investment data with Python & JavaScript: numpy, pandas, D3.js.
- Co-led interviews for software engineers & testers. Mentored two junior colleagues.

Junior Developer
Jun 2017 – Feb 2019
Nomensa
Bristol, UK

- Part of a team of UX researchers, designers, and developers building a learning platform for the NHS.
- Pioneered JavaScript service workers to enable the webapp to work offline inside operating theatres.
- Created data visualisation & forecasting tools in Python (numpy, matplotlib) to monitor application health, provide insights into user behaviour and inform the product roadmap.

EDUCATION

The University of Manchester
2014 - 2017
B.A., Linguistics – First Class Honours
Manchester, UK

Research on paraphrasing verbal metonymy via computational methods supported by an Amazon Educate grant. 2017 Q-Step Prize for best quantitative dissertation. arxiv.org/abs/1709.06162

University of Massachusetts, Amherst
2016
Computational Linguistics – 3.8/4.0 GPA, Dean's List
Massachusetts, USA