

# Alberto Morón Hernández

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[albertomh.com](http://albertomh.com)

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

Commercially-minded 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, TypeScript, Java

**Frameworks:** FastAPI, Pydantic, SQLAlchemy, Alembic, Django, pytest, Selenium, React, Angular

**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

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### Senior Software Engineer

*University of Cambridge*

Sep 2022 – present

*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.
- Build observability into services and use real data to inform impactful changes: both broad (product roadmaps) & targeted (performance improvements).
- Use Agile methods to discover user needs and iterate on effective ways of working with stakeholders.
- Build and maintain APIs that are testable, ergonomic, 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

*Wealth Club*

Feb 2019 – Apr 2022

*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

*Nomensa*

Jun 2017 – Feb 2019

*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

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### The University of Manchester

*B.A., Linguistics – First Class Honours*

2014 - 2017

*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](https://arxiv.org/abs/1709.06162)

### University of Massachusetts, Amherst

*Computational Linguistics – 3.8/4.0 GPA, Dean's List*

2016

*Massachusetts, USA*