

Alberto Morón Hernández

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github.com/albertomh

Software engineer at ease across the stack and at home in cross-functional teams. Equally happy designing database schemas and exposing them via well-documented RESTful APIs, creating responsive frontends, or building & maintaining infrastructure. Trusted to make choices about the technology used in key projects and to mentor junior members of the team.

Key technologies: Python 3, Django, Java, Spring, PostgreSQL, Docker, JavaScript & TypeScript, Angular, SCSS, AWS, Terraform, Cloudflare, Linux, Bash, git.

Experience

Senior software engineer at the University of Cambridge

September 2022 - present

Part of a cross-functional team developing cloud native services to support the University in its mission to provide learning and research at the highest international levels of excellence.

Work with stakeholders using Agile methods to scope & refine features. Iterate on effective working practices as a team.

Collaborate with Business Analysts, User Researchers, Product Managers, and fellow engineers to deliver solutions.

Build and maintain testable, scalable RESTful APIs.

Participate in code reviews across the stack (Terraform, GCP, Python, TypeScript). Adopt DevOps practices: IaC, CI/CD pipelines, automation, monitoring, 12Factor.

Software engineer at Wealth Club

February 2019 - April 2022

Part of a cross-functional team developing & running all technology (CRM, investor portal, asset tracker, marketing site) for a venture capital broker with £800M AUM.

Built a caching layer that enabled a legacy site to serve 4.9 million requests per month, supporting organic traffic growth of +94% YoY.

Wrote serverless Cloudflare Workers to improve a Django-based CMS, making the site 3.5x cheaper to run, increasing the SEO score and boosting conversion rates.

Co-led interviews for software engineers, testers, and DevOps roles. Onboarded, trained, and managed workload for two junior colleagues.

Architected and built an intranet using Spring (Java), Angular (TypeScript), Docker, and PostgreSQL.

Maintained infrastructure on-prem & cloud: Linux servers, AWS VPC, DNS, FortiGate, DHCP. Automated and documented setup, backup, and disaster recovery procedures.

Software developer at Nomensa

June 2017 - February 2019

Built an eLearning platform for the NHS, pioneering JavaScript service workers within the project to enable it to work offline inside operating theatres.

Created data visualisation & forecasting tools in Python (numpy, matplotlib) to monitor application health and provide insights into user behaviour.

Minimised running costs by using S3 to handle documents at scale and increased developer efficiency with Gitlab pipelines for CI/CD deployments.

Reduced technical debt and wrote documentation for legacy Django projects.

Open-source contributions

Nacar (Python 3, Bash) github.com/albertomh/Nacar

Nacar is a tool to create interactive text-based interfaces, combining my interests in metaprogramming and improving the Developer Experience.

Exodus (Java, Spring, SQL) github.com/albertomh/Exodus

Exodus is a light (~7 kb), plug-in database migration runner for the Spring framework.

Education

University of Manchester | BA (Hons) Linguistics & English Literature (1st)

2014 - 2017

My dissertation focused on computationally paraphrasing verbal metonymy: refining algorithms to understand certain English-language constructs. Supported by Amazon via an AWS Educate grant & awarded the 2017 Q-Step prize. arxiv.org/abs/1709.06162

Modules included: Symbolic Logic; Semantics; Forensic Linguistics; Typology.

University of Massachusetts, Amherst (USA) | Comp. Linguistics (88%, Dean's List)

2016, Year abroad

Honed my Python skills with an emphasis on NLP tasks. At hackathons around the Pioneer Valley I learned to use third-party APIs and write code as part of a team.

Modules included: Computational Linguistics; Syntax; Language & Cognition.

King's College Madrid (Spain) | GCSEs and A-Levels

2000 - 2014