Alberto Morón Hernández

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Mid-weight software engineer at ease across the stack. Equally happy building serverless backends routing tens of thousands of requests per second, creating responsive frontends, or designing database schemas and exposing them via RESTful APIs.
Trusted to make choices about the technology used in key projects and to interview & manage junior members of the team.

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

Experience

Software engineer at Wealth Club
February 2019 - present

I have been one half of a two-person team developing & running all technology for Wealth Club, a venture capital broker with £800M AUM.

Built a caching layer that enabled a legacy Django site to withstand 10x traffic spikes, serving 4.9 million requests per month. Supported organic traffic growing +94% YoY. Wrote serverless Cloudflare Workers to improve a Django-based CMS, making the site 3.5x cheaper to run, increasing our SEO score and boosting conversion rates.

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

Architected and built an intranet using Spring (Java), Angular (TypeScript), Docker, and PostgreSQL. Centralised control and reduced reliance on 3rd-party services.

Developed a secure messaging platform to notify investors of transactions, handling thousands of messages per month. Integrated with the company's bespoke CRM.

Performed attribution modelling to understand user behaviour in response to marketing campaigns, helping to reduce the cost per lead.

Halved the company's monthly Cloudflare bill by removing redundant services and refactoring to use more efficient alternatives, minimising migration costs.

Sped up database queries by an order of magnitude when I replaced inefficient ORM use with SQL functions.

Networking on-prem & cloud: AWS VPC, DNS, FortiGate, DHCP, SIP telephony.

Documented code and processes, writing playbooks for common issues.

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.

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

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

Reduced technical debt and wrote documentation for legacy projects.

Open-source contributions

Nacar github.com/albertomh/Nacar

I recently launched Nacar, a tool to create interactive text-based interfaces from simple YAML blueprints. This project combines my interests in metaprogramming, computational approaches to language, and improving Developer Experience (DX).

Nacar is written in Python 3.9, features type annotations & full test coverage, and has allowed me to give back to the open-source community.

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