

Gonzalo Hirsch, MEng

Software Engineer

London, United Kingdom

hirschgonzalo@gmail.com • + 44 7474666751 • github.com/GonzaloHirsch • linkedin.com/in/gonzalo-hirsch • gonzalohirsch.com

SUMMARY

Certified AWS Solutions Architect Associate, optimization-focused software engineer bringing 6 years of professional experience. Proven expertise in complex, multi-cloud environments and software optimization, reducing yearly costs by more than £20,000 and deployment time by 90%, delivering revenue over £1.3M and innovation in software design.

PROFESSIONAL EXPERIENCE

META

Senior Software Engineer (Enterprise Engineer, IC5)

London, UK

February 2025 - Present

CROUD

Senior Software Engineer

London, UK

April 2023 - January 2025

- Reduced deployment time by 90% by migrating infrastructure deployments into Terraform (GCP, Docker).
- Saved more than £15,000 per year in GCP by actively identifying and removing unused resources.
- Migrated local workloads into purpose-built serverless system architectures in GCP, leading to at least a 10x increase in processing power (Python, Docker, Cloud Run, Pub/Sub, Cloud Tasks, Redis).
- Delivered more than £1.3M in revenue by designing and implementing cloud-based architectures (GCP).
- Integrated LLMs (OpenAI, Gemini) into GCP-based workloads, reducing manual tasks by 50%.
- Migrated data storage solutions into optimized alternatives in system architectures, reducing cost by 90%.
- Spearheaded security, fostered the adoption of Workload Identity Federation and Secret Management across cloud providers, and identified vulnerabilities in cloud workloads (AWS, GCP, GitHub Actions).
- Optimized build strategies in GitHub Actions, decreasing billable time by more than 50% (Docker, git, Bash).
- Designed real-time architectures for clients, handling up to 250 RPS (GCP, Terraform, Cloud Run, Firestore).
- Overhauled MLOps pipelines to standardize deployment and development of models (GCP, VertexAI, Python).
- Conducted code reviews for a team of 4 engineers, ensuring adherence to best practices and reducing code-related defects by 50% through automated testing tools (SonarQube, Pytest) over a period of 12 months.

THE WINSTON PROJECT

Full-Stack Developer (via Toptal)

Remote, US

February 2021 - January 2023

- Increased conversions by 3-4x by migrating sites to custom CMS-based websites using Gridsome (Vue.js SSG) and 11ty (CSS, HTML, Tailwind CSS, JavaScript, PostgreSQL).
- Captured more than 10,000,000 impressions by developing end-user applications for content discovery.
- Reduced Time to Market by 65% and saved up to \$4,500 per year by engineering, implementing, and optimizing architecture for application back ends (Node.js, JavaScript, TypeScript, Python).
- Engineered features and technologies during the design and development of a CMS front end and back end.
- Improved SEO scores by more than 40% by analyzing SEO performance.
- Improved overall site accessibility by more than 50%, complying with WCAG 2 guidelines.

TOPTAL

Full-Stack Freelancer

Remote, US

January 2021 - January 2023

Member of the Toptal community under the Core (Full-Stack) specialization.

IEEE COMPUTER SOCIETY ITBA

Co-Founder and Vice President

Buenos Aires, Argentina

September 2019 - July 2021

- Founded the organization and grew the team, with the other co-founder, from 2 to 20 people.
- Set goals and supervised teams to ensure performance and quality, increasing production by 100%.
- Slashed downtime by 50% by adopting optimized work tools.

NEWCOMBIN

Buenos Aires, Argentina

Full-Stack Developer

December 2018 - August 2020

- Reduced development time by more than 50% by redesigning and refactoring an API for a digital payments platform using Java and multiple AWS services (Lambda, Serverless, S3, DynamoDB, and CloudFront).
- Increased conversions by 60% by implementing an eCommerce app for a subscription magazine (C#, .NET, ASP, and SQL Server).
- Led the design of a mobile application for a proof-of-work system using location-based and triangulation techniques.

EDUCATION

INSTITUTO TECNOLÓGICO DE BUENOS AIRES

Master's Degree in Software Engineering with Honors

Buenos Aires, Argentina

January 2021 - December 2022

Focused on Artificial Intelligence, Machine Learning, Data Science, Cloud Computing, Cryptocurrencies and Security, and Virtual Reality (using Unity).

Capstone Project: Automatic Generation of Smart Contracts ERC-721 (NFTs).

INSTITUTO TECNOLÓGICO DE BUENOS AIRES

Bachelor's Degree in Software Engineering with Honors

Buenos Aires, Argentina

January 2017 - December 2020

SKILLS

Programming Languages/Technologies

Proficient in Java, JavaScript, TypeScript, Python, C, C#, SQL, CSS/SCSS, HTML, and XML. Advanced in Ruby, and Golang. Intermediate in Octave, Matlab, and Solidity.

Databases

Proficient in PostgreSQL, MongoDB, and Redis. Advanced in AWS DynamoDB, and Microsoft SQL Server. Intermediate in HBase, CouchDB, Neo4J, and Elasticsearch.

Frameworks

Proficient in Vue.js, React, Django, Serverless, and Unity. Advanced in .NET, ASP, and Spring (inc. Hibernate). Ample experience with AWS Services.

Software/Tools

Proficient in Terraform, GitHub Actions, Git, Linux (POSIX), and Unity (VR, Desktop, Mobile). Advanced in Docker and Bitbucket Pipelines. Intermediate in Blender.

Languages

Bilingual proficiency in English. Native Spanish.

Certifications

AWS Certified Solutions Architect – Associate (Credential ID 3YEBBJ7CT144Q1W2).

B2 First, Diploma ICE, and Advanced Subsidiary in Maths and IT (Cambridge).

VOLUNTEERISM

INSTITUTO TECNOLÓGICO DE BUENOS AIRES

Teaching Assistant (Machine Learning)

Buenos Aires, Argentina

July 2022 - December 2022

Assistant in coursework evaluation and grading; designed practical coursework for around 30 students. Analyzed multiple machine learning methods for coursework.

INSTITUTO TECNOLÓGICO DE BUENOS AIRES

Teacher (Multiple Courses)

Buenos Aires, Argentina

August 2019 - March 2021

Curated and taught courses on REST API development using Django and introduction to programming in Python, reaching more than 350 students.

AWARDS AND ACHIEVEMENTS

- First place in the "Code for Good" hackathon from JP Morgan in 2019.
- Third place at Bellatrix's hackathon in 2019 and ITBA's hackathon in 2018.
- Google internship offers (2020 and 2021), unable to participate due to the COVID-19 pandemic.