

# Gonzalo Hirsch

## Software Engineer

London, United Kingdom

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### SUMMARY

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Optimization-focused software engineer with over 4 years of experience in software development. Proven expertise in complex environments and software optimization, reducing yearly costs by more than \$4,500 and Time to Market by 65%, delivering value and innovation in software design.

### PROFESSIONAL EXPERIENCE

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#### THE WINSTON PROJECT

##### Full-Stack Developer

Remote, US

February 2021 - Present

- Increased conversions by 3-4x by migrating university websites in the US to custom CMS-based websites using Gridsome's SSR for Vue.js and 11ty (CSS, HTML, Tailwind CSS, JavaScript, PostgreSQL).
- Captured more than 10,000,000 impressions by developing end-user applications for content discovery and community management clients.
- 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).
- Experimented and studied the feasibility of features and created MVPs for back-end development.
- 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 - Present

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.
- Supervised teams to ensure acceptable performance and quality, setting goals and tracking progress, leading to a 100% increase in production.
- Slashed downtime by 50% by adopting optimized work tools.

#### NEWCOMBIN

##### Full-Stack Developer

Buenos Aires, Argentina

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).
- Fostered application security by programming a 2FA companion app for a digital payments client using Apache Cordova and Vue.js.
- Increased conversions by 60% by implementing an eCommerce app for a subscription magazine using C#, .NET, ASP, and Microsoft SQL Server.
- Led the design of a mobile application for a proof-of-work system using location-based and triangulation techniques.

### EDUCATION

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#### 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).

## **SKILLS**

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

### **Languages**

Bilingual proficiency in English. Native Spanish.

### **Certifications**

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

## **VOLUNTEERISM**

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### **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**

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- 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.