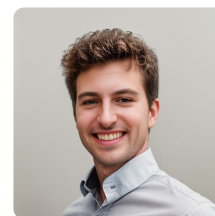# Juan Hernandez

FULL-STACK DEVELOPER · SOFTWARE ENGINEER

Geneva, Switzerland

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Summary

I am a passionate software engineer with a love for coding and learning, which has led to the development of diverse applications, ranging from the stock market and the Swiss diamond industry to Zen tales and reading statistics. My startup experience has broadened my skills beyond coding to include design, soft skills, and business acumen, shaping me into a versatile developer. I am committed and proactive, always willing to propose new ideas to improve the product. Originally from Spain, I now live and work in Switzerland.

Work Experience

Spacecode
Geneva, Switzerland

LEAD FULL-STACK DEVELOPER
Oct. 2022 - Nov. 2023

- Developed from scratch Diamond Match, a full-stack cloud-based SaaS for diamond inventory management and diamond identification, integrated with RFID hardware devices. It now serves as the flagship product of the company.
- Set up best software engineering practices, such as different environments for development, production, and testing, adherence to clean code principles, and conducted code reviews for my peers and subordinates.
- Contributed to the theoretical and practical development of the Diamond Match Algorithm, a cutting-edge computer vision algorithm that enables diamond identification.
- Consistently interacted with clients, demonstrated the product, and built strong business expertise and deep knowledge about the diamond industry to better fulfill client needs.

Octobit
Madrid, Spain

CO-FOUNDER & SOFTWARE ENGINEER
Sept. 2020 - Jan. 2022

- Co-founded and operated a business focused on crafting tailored web applications.
- Gained experience in full-stack development as well as other skills like coordinating a team, speaking with clients, understanding their needs, and translating them into business requirements and MVPs (Minimum Viable Products).

Netzima
Madrid, Spain

JAVA SOFTWARE ENGINEER - INTERNSHIP
Jun. 2021 - Jan. 2022

- Contributed to the development of the company's data anonymization and analysis platform, designed for banks and insurers.
- Improved the speed of various processes through the implementation of concurrency and multi-threading.
- Gained deep practical knowledge of a variety of SQL databases, including DB2, PostgreSQL, MySQL, and SQL Server.

Projects

Roast My Web - Improve your website using AI
Side Project

HTTPS://WWW.ROASTMYWEB.COM/
Launched 2023 - Ongoing

- Spearheaded the development of "Roast My Web," a profitable SaaS platform utilizing AI for comprehensive webpage analysis, significantly reducing cost and time compared to traditional human analysis.
- Achieved Top 3 Product of the Day on Product Hunt and over 700 users, reflecting the market's positive reception and high user engagement, essential for continuous product improvement.

Readstats - Spotify Wrapped for books
Side Project

HTTPS://WWW.READSTATS.COM/
Launched 2023 - Ongoing

- Developed a unique project with over 5k visitors last month, combining my passion for reading and data analysis, addressing the gap in Goodreads for enhanced data visualization and analysis of reading habits.

Data-Driven Exploration of Key Factors in Stock Market Success
Bachelor's Thesis

HTTPS://OA.UPM.ES/70928/1/TFG_JUAN_HERNANDEZ_SANCHEZ.PDF
Completed

- Conducted extensive data analysis on financial data from over 7,000 listed companies, employing web scraping to gather data and K-Means for outlier detection, resulting in a significant improvement in data quality.
- Developed and implemented an XGBoost regression model to understand stock price movements, using a 40-year range of financial data and analyzing over 100 factors to assess the impact of financial fundamentals on stock performance.

Education

Bachelor's Degree in Mathematics and Computer Science   *Madrid, Spain*
Universidad Politécnica de Madrid (UPM)   *Sep. 2018 - Jun. 2022*

Certificates

2022 **Google Data Analytics Professional Certificate ,** Coursera - Google   *Online*
2022 **Machine Learning Specialization,** Coursera - Stanford University   *Online*
2017 **Cambridge English: Advanced (CAE),** Cambridge   *Madrid, Spain*
2014 **Delf A1 - Diplôme d'études en langue française,** Secretariat general ministere education nationale   *Madrid, Spain*

Skills

Technical Skills   Python,Javascript / Typescript, NextJS, React, FastAPI, Java, Express, HTML/CSS, AWS, Git, PostgreSQL, MongoDB
Domain Knowledge   Mathematics, Finance,Diamond Industry, Async Programming, DevOps, Unix, Web Sockets, Cloud, Data analysis
Languages   Native Spanish, C1 Advanced - English, Delf A1 - Basic French

References

Testimonials can be downloaded from my personal webpage or provided upon request.

2023 **Christophe Horvath,** Chief Product Engineer   *Spacecode*
2023 **Christoph Alt,** Chief Technology Officer   *Spacecode*
2021 **Sergio García,** Co-Founder and Fullstack Developer   *Octobit*

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