

# Carlos Sanchez Marin

+82 (0)10-6899-2809 | [carlos@sanchez.kr](mailto:carlos@sanchez.kr) | [linkedin.com/in/csanchezmarin](https://linkedin.com/in/csanchezmarin) | [github.com/Casamatechs](https://github.com/Casamatechs)

## EXPERIENCE

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### Lead Software Engineer

Feb 2023 – present

*Onoma AI*

*Seoul, South Korea*

- Lead developer of full-stack server-less applications
- Developed a promotional app that feeds a proprietary text2image AI with prompts generated by ChatGPT
- Redesigned the cloud infrastructure of our main product cutting AWS costs by more than 50% while enhancing our data privacy protocols

### Data Science Intern

Mar 2021 – Nov 2021

*DAF Trucks NV*

*Eindhoven, The Netherlands*

- Analyzed raw data from over 60,000 connected trucks and corrected measurement errors applying statistical analysis
- Developed different deep learning models with Tensorflow to forecast trends in vehicle's data
- Collaborated with different departments within DAF to improve the deep learning models and presented the results at the end of the internship

### Researcher

Jan 2019 – Jun 2020

*Universidad Politécnica de Madrid*

*Madrid, Spain*

- Developed a tool for visual composition of SQL and real-time queries on Angular
- Developed web services to connect different web applications with backend services
- Developed new components and features for a Complex Event Processing engine on Java, including real-time data ingestion and export
- Developed scripts to automatize the installation and deployment of different Complex Event Processing platforms
- Developed automatization tools for the benchmarking of a Complex Event Processing engine running on edge devices

### Software Engineer

Jan 2018 – Jan 2019

*Vipera Iberica SL*

*Madrid, Spain*

- Developed Java plugins for the backend of a banking application using the Apache Felix framework
- Developed an Enterprise's credit card management mobile app using the Ionic Framework
- Co-developed as my Bachelor's final degree project a plugin to aim the clients with a native SDK for iOS, Android and Cordova in case they wanted to integrate the company's card managing solution in their apps instead of using the end-to-end solution offered by Vipera

### Research Intern

Jul 2016 – Apr 2017

*Universidad Politécnica de Madrid*

*Madrid, Spain*

- Developed scalability functionalities for a Complex Event Processing engine using the Apache Zookeeper library
- Developed a set of benchmarks to test my solution using Python and Bash to auto-generate the datasets

## EDUCATION

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### Eindhoven University of Technology

Eindhoven, The Netherlands

*Exit year of Master in Data Science in Engineering, Minor in ICT Innovation*

*Feb. 2023*

### Aalto University

Helsinki, Finland

*Summer School: Ravaging Disruptions in Retailing*

*Aug. 2020*

### Universidad Politécnica de Madrid

Madrid, Spain

*Entry year of Master in ICT innovation: Data Science track*

*Jun. 2020*

### Universidad Politécnica de Madrid

Madrid, Spain

*Bachelor of Engineering in Computer Engineering*

*Feb. 2019*

### Troy University

Troy, AL, USA

*Exchange student on Bachelor of Science in Computer Science*

*Fall 2017*

## TECHNICAL SKILLS

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**Languages:** Java, TypeScript, Python, Scala, C, SQL, JavaScript, HTML/CSS, R

**Data Science tools:** Pandas, Tensorflow, numpy, tidyverse

**Web Frameworks:** Angular, Vue.js, Next.js/React

**Developer Tools:** Git, Maven, Gradle, npm, Docker, AWS

## SOFT SKILLS

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Teamwork, Analytical thinking, Autonomous learning