

Jaime Joseba HIDALGO GARCÍA

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Master of Telecommunications Engineer - Enterprise Architect
Systems Engineering | Cybersecurity | DevOps

EXPERIENCE

- JUN 2019 - PRESENT **CCC Information Services - Chicago (IL)** | www.cccis.com
- Systems Engineer, Enterprise Architecture
 - Leading a business strategy for making a transition into microservices architecture
 - Designing and implementing a microservices infrastructure and platform on top of Kubernetes
 - Assembling a High Performance Computing environment for AI research- Application Architect, Enterprise Architecture
- FEB 2017 - DEC 2018 **Bilbao Dynamics - Bilbao (Spain)** | bilbaodynamics.com
- Engineer and Teacher
 - Non-profit organization that teaches electronics, robotics, and programming
 - Organized multiple courses and volunteered in teaching diverse knowledge areas
 - Designed and developed software that helped the organization gain awareness and ease education
- JUN 2016 - SEP 2017 **Noisewatch Project Team - Bilbao (Spain)** | www.noise.watch
- Software Engineer
 - Multidisciplinary team hired by city council for reducing noise pollution
 - Directed the software team and designed complete solution for the device
 - Assisted the hardware team in noise measurement signal processing

EDUCATION

- AUG 2018 - AUG 2019 **Master of Information Technology and Management**
Illinois Institute of Technology | Chicago (USA)
Specialized in Computer and Information Security | GPA: 4.0
Research Thesis on Kubernetes | Focus on: Cloud Computing & Virtualization Technologies
- OCT 2017 - AUG 2019 **Master of Telecommunications Engineering**
University of the Basque Country | Bilbao (Spain)
Specialized in Telematics - Computer Science
- SEP 2013 - JUL 2017 **Bachelor's Degree in Telecommunications Engineering**
University of the Basque Country | Bilbao (Spain)
Specialized in Telematics - Computer Science

SKILLS

TECHNOLOGIES	Kubernetes, Amazon AWS, Pentesting, Networking, Linux, Blockchain
PROGRAMMING	C, Java, Javascript (NodeJS), Bash, Python, VHDL, Matlab, Web Stack
LANGUAGES	Spanish, English, Basque, French (Basic)
OTHER KNOWLEDGE	Electronics, Signal Processing, Mobile Networks, Microsoft Office

ACHIEVEMENTS

- JAN 2019 Extraordinary award by University of the Basque Country
Agreed by governing council and director for outstanding performance in Telecommunications's degree
- MAR 2018 **Rank #1** in Bachelor's Degree in Telecommunications Engineering
Achieved highest promotion score of 10/10 | Obtained special honors in 18 courses & Thesis
- JUL 2017 Honors in Bachelor's Thesis with a score of 10
- JUL 2017 Bizkaia Talentia Program Certification
- 2014 | 2016 | 2017 | 2018 IDOM Prize for the best academic records in Engineering School
Four times awarded the special prize for achieving the highest grades

PROJECTS

- Jul 2019 *“Analysis of Microservices software architecture on Kubernetes: Monolithic migration, design choices, best practices and applications”* | Illinois Institute of Technology
MSc. Thesis
- Study of microservices software architecture and the path and challenges to transition
- Jul 2017 *“Analysis and implementation of real-time machine learning models in Big Data platforms and sensible to concept drift”* | University of the Basque Country
BSc. Thesis
- Implemented state-of-the-art algorithm to early detect and adapt to concept drift
 - Designed three-tier cluster infrastructure using Kafka, Spark & Redis to preprocess before ML
- Aug 2019 **kube_autojob** | Kubernetes Jobs Scheduler
- Invented a solution to leverage the Kubernetes scheduler to run hundreds of parallel independent jobs
 - Works by instructing Kubernetes to run multiple job instances with parametrized env variables and cli params
- May 2017 **notMAIL** | Message and Notifications delivery protocol
- Invented email replacement focused on notifications managed by user controlled subscriptions
 - Designed protocol specification and communications API | Designed multiple API libraries for different languages
- Oct 2015 **YarHarPictor** | PIC16 ROM Flasher
- Programmed a PIC16 microcontroller ROM flasher and memory viewer via serial port
 - Adopted by university microcontroller course to assist students implementing their programs
- May 2015 **MusicBOO** | Multiplatform music and video downloader | musicboo.hontzakdio.com
- Developed free video and music downloader, player and converter
 - Maintained backend online since 2015 with over 3000 users
- Nov 2018 **SSM** | Server management tool for sysadmins (university course project)
- Facilitates reporting multiple servers or IOT devices' status from central platform
 - Allows to send batch commands and gather information from a list of servers