J. Sidrach
Resume

📞 (858) 291-2416
🔗 jsid.me/projects
✉ contact@jsid.me
⌨ github.com/jsidrach
in linkedin.com/in/jsidrach

Education

2015 - 2017 **M.S. in Computational Science, Mathematics and Engineering** - *University of California, San Diego*
GPA: 4.0/4.0. Professional focus: Software Engineering

2010 - 2015 **Double Degree in Computer Science and Mathematics** - *Universidad Autónoma de Madrid*
Combined GPA: 8.4/10, Computer Science GPA: 9.1/10 (top 5%)

Experience

Sept. 2015 - Present **Teaching Assistant** - *University of California, San Diego. Department of Mathematics*
○ Holding discussion sections, tutoring students and grading exams for undergraduate mathematics courses
○ Currently assisting in Calculus for Science and Engineering III

July 2015 - Sept. 2015 **Web Developer** - *Innovación en Sistemas de Monitorización*
○ Proposed and incorporated some software tools to the work flow, speeding up the software development process
○ Designed and implemented a module for the visualization of photovoltaic and self-consumption facilities for emoncms, a powerful open source web-app to process and visualize environmental data
○ Developed a semi-automatic system to create users with predefined features for emoncms

Sept. 2014 - June 2015 **Software Developer Intern** - *High Performance Computing and Networking*
○ Contributed to the implementation of an API to federate a testbed into the European project Fed4FIRE
○ Designed and implemented a REST service and a web UI to manage high performance network FPGA traffic capturers, as part of the degree thesis

June 2014 - Sept. 2014 **Banking Analytics Intern** - *Knowledge Engineering Institute*
○ Developed software tools, including a redmine plugin and bash scripts to help automate database migrations

Projects

July 2015 - Sept. 2015 **EWatcher** - *module for the emoncms platform to visualize PV self-consumption facilities*
○ Currently being used at two solar energy cooperatives in Southern Spain
○ Visually displays real time data, and enables a quick detection of any possible issue with the electricity generation
○ Libraries and languages used: Flot, jQuery, Bootstrap, PHP, HTML, CSS, JavaScript

July 2015 **Jekyll About-me** - *personal portfolio theme for jekyll*
○ Compatible with GitHub Pages for easy deployment and hosting
○ Libraries and languages used: jekyll, Liquid, Bootstrap, jQuery, HTML, JavaScript, CSS

Sept. 2014 - June 2015 **NetWatcher** - *web-based app to manage FPGA network probes*
○ Allows non-expert users to test their apps over previously captured network traffic at 10 Gbps
○ Structured as a REST-like service back-end on the FPGA host and a webpage front-end
○ Improves the overall system security
○ Libraries and languages used: node.js, Bootstrap, jQuery, PHP, HTML, JavaScript, CSS, bash

Other courses

Summer 2015 **Data Visualization** - *University of Illinois at Urbana-Champaign (Coursera)*

Skills

Competences Software Engineering, Imperative programming, OOP, Code refactoring, Performance optimization

Prog. Langs. C, JavaScript, PHP, SQL, HTML, CSS, C#, Java

Software git, jQuery, node.js, express.js

Languages

Spanish Native

English Professional working proficiency
○ TOEFL iBT - 108/120 (2015)   ○ Cambridge English: Advance (2014)