



DANIEL BRUZUAL

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CV
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EDUCATION

MSc. Service Design and Engineering (GPA 4.91/5.00), 2015—2017

Aalto University - University of Trento. Double degree. EIT Digital Master School.

Minor: Innovation and Entrepreneurship.

Thesis: Distributed Computing Framework Based on Software Containers for Heterogeneous Embedded Devices (Grade 5/5)

Computer Engineering (*cum laude*), 2007—2013

Universidad Simón Bolívar, Caracas, Venezuela.

Specializations: Algorithm Design, Database System Development

WORK EXPERIENCE

Research Assistant. Aalto University. May 2017 – Present

Employing Docker and Docker Swarm for distributed computing on IoT devices. (Docker, Docker Swarm, Fog Computing, Internet of Things)

Teaching Assistant. Aalto University. Sept 2017 – Present

Developing tools to automate the grading of Android projects for the Mobile Cloud Computing course. Grading is based on unit tests and students receive immediate feedback after uploading their project to our online platform. (Docker, Android, Appium, Unit Testing)

Freelance Developer. 2014 – 2015 (1 year)

Developed custom WordPress themes and plugins for several clients in different sectors

Full-Stack and Mobile Developer. TuTallerMecánico. 2013 – 2014 (1 year)

Developed a search engine of car repair garages in Venezuela, including a web application and native Android application. (Yii, JavaScript, MySQL & Redis, Java)

Android Developer. MobileMediaNetworks. 2013 – 2014 (1 year)

Developed an Android app for viewing augmented reality content in print publications, as well as a CMS to allow editors to set up the augmented reality and retrieve usage analytics. (CakePHP, MySQL, Java)

Recommendation Algorithms Intern. Plista GmbH. 2012 (6 months)

Developed several algorithms to provide content recommendations for Plista's plugin. Also developed tools for visualizing analytics. (Collaborative Filtering)

TECHNICAL SKILLS

Programming languages

Proficient in Java and PHP. Developed several projects in Python, JavaScript and C. Familiar with different paradigms including functional languages.

Server administration

Confident with command line tools and shell scripts. Comfortable with configuring Linux systems and web servers.

Docker

Very good understanding of Docker internals and implementation details. Capable of building, deploying and debugging containers. Capable of deploying distributed applications based on micro-services.

Databases

Good understanding of relational database systems and database design. Capable of designing indices, triggers, constraints and stored procedures. Experienced with MySQL, PostgreSQL and Redis (non-relational).

Mobile applications

Good understanding of Android development and mobile-cloud architectures. Have developed several Android applications. Currently learning to use Firebase for Android.

APIs and Backend

Good understanding of REST and SOAP web services and best practices. Capable of designing modular systems based on Service-Oriented Architecture. Experience implementing web services in Node.js and Java.

AWARDS & CONFERENCES

1st Place. Junction (2016). IoT track. Helsinki, Finland.

1st Place. Hacking for South Africa (2015). University of Trento.

Speaker at DockerCon Europe 2017. Topic: Deploying Software Containers on Heterogeneous IoT Devices.

SOFT SKILLS

Proactive, team player, communicative, curious, motivated, receptive and good at public speaking

LANGUAGES

Spanish (native), English (TOEFL 116/120), German (B2), Italian (proficient) and Portuguese (proficient)