Álvaro Brey Vilas

SOFTWARE DEVELOPER

+ CONTACT

Location	Santiago de Compostela, A Coruña, Spain
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+ ABOUT ME

I am a software developer and DevOps engineer. I am passionate about automation and clean code.

I love trying new techniques and technologies; I am quick to learn the basics of new tools and gradually build proficiency in them.

I am also an open-source enthusiast with various published repositories and contributions to many public projects.

+ EXPERIENCES

2018 - Present — **FRONT END DEVELOPER / DEVOPS ENGINEER**

Imagames Gamification Services

VueJS Frontend for admin dashboards and public applications. Infrastructure management, monitoring and automation.

Responsible for proposing and carrying out several extensive upgrades to development processes and infrastructure management, including containerization and automation.

Key technologies: Docker, VueJs+TypeScript, Python+Ansible, Kubernetes

2016 - 2018 — **RESEARCHER / SOFTWARE DEVELOPER**

CiTIUS, University of Santiago de Compostela

Full stack development with a strong focus on Android. Research in medication adherence and mHealth.

Main project: Calendula (citius.usc.es/calendula). Open-source medication self-management Android app.

Key technologies: Android SDK, Kotlin, Python, NodeJS

06/2015 – 09/2015 — **PROGRAMMER**

Everis Spain

Internship as a software developer. Mainly Java web development (Spring), with some Android development as well.

2015-2017 — **ANDROID ROM DEVELOPER**

Personal project

Development and maintenance of open-source CyanogenMOD (later LineageOS) Android ROMs for Android devices, including system internals, kernels and applications.

Intensive usage of Git and code review systems.

Key technologies: Android, Java, C, Shell

+ EDUCATION

2017- 2019 — **MASTERS DEGREE IN ARTIFICIAL INTELLIGENCE RESEARCH**

AEPIA/UIMP

Education in machine learning, artificial intelligence, statistics and data analysis, and introduction to scientific research.

Degree imparted by the Spanish Association for Artificial Intelligence (AEPIA) and managed by the Menéndez Pelayo International University (UIMP).

2012 - 2016 **DEGREE IN COMPUTER SCIENCE**

University of Santiago de Compostela

Advanced education related to computer science, including but not limited to: software programming and design, systems engineering and systems administration.

End of Degree Project defense on September 2016, with title "Java Implementation of QRS clustering algorithm". Adaptation of an existing signal processing algorithm for its deployment on Android devices.

+ COURSES

2017 **FUNCTIONAL PROGRAMMING IN SCALA**

EPFL (Coursera)

Course imparted by prof. Martin Odersky, designer of Scala, that serves as both a hands-on introduction to the Scala language and some higher-level functional programming concepts.

Duration: approx. 40 hours, completed in June 2017.

2017 **MACHINE LEARNING COURSE**

Stanford University (Coursera)

Machine Learning course imparted by prof. Andrew Ng of Stanford University on Coursera.

Both theoretical and practical assignments on neural networks, SVMs and other fundamental Machine Learning algorithms and related skills.

Duration: approx. 55 hours, completed in April 2017.

+ LANGUAGES

Mother tongue **Spanish, Galician**

Foreign languages **English,** C2 level by Cambridge University

+ IT SKILLS

Source languages **TypeScript, Kotlin, Python, Shell,** Scala, Javascript, Java

Tools and frameworks **VueJs, NuxtJS,** Gradle, Android SDK, Luigi

DevOps **Docker, Git, Ansible, Gitlab CI,** Kubernetes, Icinga

+ OTHER SKILLS AND HOBBIES

HTML+SCSS.

Linux systems administration.

LaTeX, Rmarkdown.

Basic skills in image editing, both bitmap (GIMP) and vector (InkScape).

Basic 3D CAD (Fusion360, FreeCAD)

Home automation via Home Assistant / NodeRED / Zigbee.