

# Gabriel Candal

## Curriculum Vitae

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## Experience

### Working

#### Apr 2019-\* **Head of Software, *Platforme*.**

Joined the company in a transformation phase, having to build processes and teams from scratch while still responding to business demands, resulting in:

- The conception of an interconnected software development process between the design, engineering and quality assurance teams, resulting in the delivery to external stakeholders (non-tech teams, sales, clients)
- DevOps practices, with continuous deployment and testing of all products based on Jenkins and GitHub Actions
- Ongoing quality assurance relying on an in-house testing framework
- A software team comprised of recent graduates, experienced developers, interns and freelancers capable of continuously deliver new products that leverage a common framework (in-house SDKs, APIs and component libraries)
- Teams that were able to work fully remote

**Technologies:** Javascript, Python, Vue.js, React, React Native, Selenium

#### Dec 2016-\* **Software Engineer, *Feedzai*.**

Working on providing machine learning through a distributed system under strict performance requirements for some of the world's largest banks, payment processors and merchants. Among other things, I have:

- Built an highly available PCI DSS-compliant key management system
- Worked in a team that consistently delivered new features for the core fraud detection engine
- Participated on the on-call rotation for high severity issues
- Coordinated a 3-person team that successfully built a prototype for a Fortune 500 company's RFP for replacing their entire fraud solution
- Coordinated a 5-person team to deliver 2 major features: changing the system's detection rules in runtime with no downtime, as well as a simulator of the real-time engine optimized for batch data
- Helped filtering candidates, onboard and mentor new colleagues (from software engineers to product owners and engineering managers)

**Technologies:** Java 8 (+ Guava, Guice, JUnit, JMockit, ...), Scala, Cassandra, Zookeeper, RabbitMQ, Spark, Flink.

#### 2015-2016 **Software Engineer, *Platforme*.**

Joined as the 3rd developer a team that built a best of breed web 3D customiser, integrating it with farfetch.com, as well as its own e-commerce engine.

- Contributed to all areas of our products, from the core customiser to the website's front and back-ends (including the e-commerce engine)
- Built an analytics dashboard
- Improved a platform for running and monitoring parallel image transformation tasks (with a 2-8x speedup when compared to its predecessor)

Besides doing software development, I have also gathered requirements from internal and external stakeholders and helped schedule and coordinate tasks within the technical team.

**Technologies:** MongoDB, Python, HTML/CSS and Javascript (jQuery).

#### 2014-2015 **Co-Founder & Lead Developer, *Trigonom*.**

Responsible for the software development in a company focused on products for health professionals. Used HTML/CSS, PHP, jQuery and PostgreSQL.

Jul-Aug 2013 **Software Developer Intern**, *Critical Manufacturing*.

Together with a colleague developed an tool to assist developers in testing. Compared to the one previously used it ran 5x faster, besides providing information as structured XML and producing 3x smaller files. Used C++ and Solaris.

### Teaching Assistant

Feb-May 2015 **Programming + Algorithm Design and Analysis**, *Faculty of Engineering of the University of Porto*, FEUP.

Sep-Nov 2014 **ProjetoFEUP**, *Faculty of Engineering of the University of Porto*, FEUP.

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### Skills

Professionally **General purpose** (Java, Javascript, Python, Scala, C/C++), **web** (React, Node.js, Vue.js), **mobile** (React Native), **databases** (Cassandra, PostgreSQL, Zookeeper, MongoDB), **other** (Spark, Flink, RabbitMQ, Unix, git, Docker, algorithms, concurrency/multiprocessing, distributed systems, agile)

Pet-projects **Web** (Redux, AngularJS, Ruby on Rails, PHP), **mobile** (Android)

Basic Haskell

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### Education

2011-2016 **Masters in Informatics and Computing Engineering**, *Faculty of Engineering of the University of Porto*, FEUP, top 5%.

Thesis on *Exploring Visual Programming Concepts for Probabilistic Programming*.

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### Extra Courses and Certificates

Dec 2019 **AWS Certified Solutions Architect**, *Amazon Web Services (AWS)*.

Nov 2017 **Certified ScrumMaster**, *Scrum Alliance*.

2013-\* **24 MOOCs**, *Coursera, edX and Udacity*.

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### Other

Blog Medium

Speaker Pixels Camp ("Distributed Systems: zero to ?")

Volunteer Codecademy, INForum, Talk A Bit

Sports Goju-ryu karaté, football