HUGO CRUZ

(+44) 755 490 38 13 • hugomfcruz@gmail.com

SUMMARY

- Full-stack software developer, with **8 years** of professional experience in software development. Proven skills in different phases of the software development, from **analysis** and **design** to **deployment** and **operations**. Developed production software with **complex business logic** (for banking and casinos) and **high-performance** requirements (18000 bets per minute taken in production). **Led small distributed teams in multi-month business critical projects.** Frequently **work in different teams**, creating bridges between them, and **pair-program** with developers in different teams, including developers in **remote offices**.

MAIN SKILLS

- Full-stack (Java, JavaScript, SQL)
- Quick learner of business rules
- Trusted and consulted by colleagues
- Focus on maintenance and operations
- Good communicator across technical backgrounds
- Leader in technical and non technical innovation

WORK EXPERIENCE AND MAIN PROJECTS

- **Java Software Engineer at Anaplan**   ➢ Mar 2018 - Present

Anaplan is a platform, powered by proprietary Hyperblock technology, purpose-built for Connected Planning, which enables dynamic, collaborative, and intelligent planning.

Part of a Scrum development team, responsible for the core server and the calculation engine backend. In this team, worked on new functionality for calculations with investment functions and automation and scalability of data and memory intensive pre-production tests.

Main achievements

→ **Pre-production tests**

Previously a process requiring intensive manual specialized intervention, the set of tests were changed to be mostly automated and scalable on AWS infrastructure, with work automatically distributed between on demand nodes. The whole process went from taking over a week to being done in under 8 hours, only constrained, removing one of the main risks from the release process.

- **Senior Java Software Engineer (L4) at Openbet (NYX group)** ➢ May 2012 - Mar 2018

Openbet (part of the NYX group) is a B2B software development company for the gambling industry.

One of the most senior developer responsible for the games server and related games services. These backend services are written in **Java8** and use **Spring** for **dependency injection**, **MVC**, **aspect oriented** features and **security**. **Maven** is used to build the services that are then deployed with **Ansible** (in production environments) and as **Docker** images (development and integration environments). **Informix** and **PostgreSQL** are supported by all application. Codebase is kept in **Git** and tested with **junit** and **Selenium**.

Main technologies

- Java SE 8 (log4j, junit, apache-libs)
- Spring (DI, MVC, AOP)
- Javascript (vanilla, React, Backbone)
- PostgreSQL & Informix
- Scripting: tcl, bash and perl

- Git (bitbucket)
- Jenkins
- Docker
- Maven
- Ansible

Main achievements

→ **PostgreSQL support on casino platform**

Lead a team of 6 cross-team developers (in London, Athens and Hyderabad, India) on a 6-month project to support PostgreSQL on the multi-tenant Casino platform (Java8, javascript and tcl applications and python, perl, sql and ansible scripts). The project was **delivered on time** and is now live. The division is **saving close to £500000 annually** on licences and DBA costs. **Test driven development** was promoted and frequently **pair-programming** was used, even between offices in different countries. Project was run with **Kanban** with **daily multi-office standups** and parallel QA.

→ **Self-hosted multi-tenant Casino platform**

Senior contributor on first Openbet **self-hosted multi-tenant casino platform**. This is a flagship project with new architecture, integrations with external APIs (SOAP and REST), and CI (Jenkins) and CD (Jenkins and Ansible) pipelines. This system is currently **delivering close to 200 games to 50 online casinos in 14 countries and 3 jurisdictions**.

→ **Mobile casino for Lotto Quebec:** (React, Backbone, Bootstrap) https://m.espacejeux.com/en/casino/
→ **Founder of Openbet Casino Code Dojo**: a big success in improving collaboration between teams. We focus on pair programming and TDD mostly in Java but also in other JVM languages.

→ **Others:**   Speeding execution of integration tests from 6 hours to 20 minutes.

Interviews and mentoring of team members in London and Athens.

Reconciliation of failed transactions using Spring scheduler.

Game server performance improvements in Java and SQL.

Introduced Maven in the games server (replacing ant) and trained teams on its usage.

- **Consultant at BOLD International** ➢ September 2010 - April 2012

IT consultancy and outsourcing startup. Worked on site with Deutsche Bank team on online mortgage, car loan and financial products simulators.

Technologies: Java, Spring, Struts, Maven, Oracle, MySql, javascript, jQuery

- **Junior Consultant at AdQuam** ➢ October 2007 - August 2008

Consultancy and outsourcing startup. Worked on internal recruitment Windows desktop application.

Technologies: .NET, Ms Sql Server

EDUCATION

- **Master**, Engineering | ISEL - Instituto Superior de Engenharia de Lisboa 2008-2010

Dissertation: "Modelling and Querying of Federated Information Systems" (**grade 19/20**)

- **Bachelor**, Engineering | ISEL - Instituto Superior de Engenharia de Lisboa 2003-2017

Final project: "Global Modelling of Partial Schemas" (**grade 17/20**)

OTHER RELEVANT INFORMATION

Additional Languages: Portuguese

Volunteering: ISELTech 2010 (organizer - www.facebook.com/iseltech10) and ECAI 2010 (ecai2010.appia.pt)

Honours: Scholarship on merit from Lisbon's Engineering Institute (2004 and 2005)

• www.hugomfcruz.com

• https://github.com/hugcruz

  • Sudoku solver (Clojure): https://github.com/hugcruz/sudoku
  • Functional Programming course (Scala): https://github.com/hugcruz/progfun1
  • Sound visualization app (Processing): https://github.com/hugcruz/sketches
  • Computer generated music (Chuck): https://github.com/hugcruz/cross-songs