

Madrid, Spain · +34 648-70-53-57 · arturobarbero97@gmail.com · linkedin.com/in/arturobp · https://arturobp3.github.io



I am **Backend Software Engineer** with almost **5 years of work experience** in **Java** (Spring, Mockito), **Python** (Django, Unittest), **Cloud Platforms** (AWS, GCP) and **distributed systems** for several type of projects. I am looking forward to facing new challenges and continuing my career working on a project where I can keep learning.

**Distributed Systems | Java | AWS | Python | Docker | MySQL | Clean Code | Microservices | CI / CD**

### WORK EXPERIENCE



**Software Engineer** as **Freelancer**



**Aug 2024 - Present (7m)**

- **Designed, developed and tested** websites and Discord bots using **Python and ReactJS**.
- **Built CI/CD pipelines** with **GitHub Actions** to **automate deployments** in VPS environments with **Docker**.
- **Gathered requirements** and maintained constant communication with clients to tailor solutions and meet their expectations.



**Backend Engineer** at **Openbank**



**Oct 2020 - Oct 2024 (4y)**

- **Designed, developed, tested and documented** a new microservice "Decision Taker BNPL" using **Java** (Spring, Mockito), Design Patterns (Factory Method, Rules, Facade) and **AWS** (S3, DynamoDB, CloudWatch, ECS) to make decisions on payments for a BNPL project in Netherlands. **Deployed in production in October 2021** and **scaled in 2 months** to operate in Germany and Spain.
- **Designed, developed, tested, deployed, documented**, and **led a technical migration** from a **Python** lambda architecture (serverless) to **Java** (microservice), using Spring Framework, Spring Cloud and **AWS** (Lambda, S3, DynamoDB, CloudWatch, ECS, X-Ray) to improve service response time. **Released to production in November 2022**.
- **Deployed** more than 23 microservices to AWS (**~80% of the Risk & Compliance's distributed architecture**) using **CI/CD** tools (Docker, Bamboo, Harness) for several countries in 4 different environments (DEV, QA, STG, PROD).
- Worked with an **event-driven architecture** that uses **AWS SNS** and **implemented an API** by using **hexagonal architecture** to read customer information, classify their debt status and make decisions about it.



**Backend Engineer** at **Director 11**



**Jun 2019 - Aug 2019 (3m)**

**Suscription-based** platform which centralizes all the data belonging to a football club so that customers are able to increase efficiency in decision-making.

- **Developed and helped design a completely new module:** "Maintenance", using **Java** (Spring Framework, Hibernate) and **MySQL**. Used Design Patterns (Adapter, DAO) and followed the MVC architecture. The feature was **launched at the end of August**.

### PROJECTS

► **Video Facial Detection System** [See code](#)

**Sept 2019 - Sept 2020 (9m)**

Deep Learning-based system which analyzes videos and finds faces with very unfavorable conditions in order to facilitate the process of forensics analysis and get rid of the need to analyze them manually.

- **Designed, developed and trained 6 different deep neural networks using Python**, TensorFlow API and **Google Cloud** (GCP), which detect faces in real-time with an **accuracy of 75%**. Trained using a data set with **32.000 images**.

► **Android Application to Learn English** [See code](#)

**Apr 2020 - May 2020 (2m)**

Android native application in order to learn english by playing a game where the user links words with their meanings to gain points and being able to unlock new vocabulary. Language: **Java**.

- **Designed the architecture** using Design Patterns (Factory, Adapter) and following the MVC architecture.
- Built the business logic and helped use a **REST API** (Wordnik) that provided information about words.
- **Designed and implemented** the entire Frontend using animations which improved the user experience.

### EDUCATION

**Universidad Complutense de Madrid** BSc - Computer Science

**Sept 2016 - Sept 2020 (4y)**

- **Deep Learning-based Thesis** graded with honors.
- Outstanding grades in: Cloud Computing, Machine Learning and Big Data, Advanced databases and NoSQL databases.

### CERTIFICATIONS

- **Cloud and DevOps - MIT Professional Education (80h):** Docker, CI/CD, AWS, Serverless ([See certificate](#)).
- **Engineering Practices for Building Quality Software - Coursera (18h):** Quality in Design, Architecture, Implementation, Testing and Deployment ([See certificate](#)).

### LANGUAGES

- **Spanish** - Native speaker | **English** - Upper Intermediate (B2+)