

Matteo Ansaldi

Curriculum Vitae

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Education

2017–2019 **Masters Degree in Computer Engineering**, Politecnico di Torino, Turin, 110/110.

2013–2017 **Bachelors Degree in Computer Engineering**, Politecnico di Torino, Turin, 92/110.

Masters Thesis

Title *Camera-less context detection in mobile platforms*

Supervisors Professor M. Poncino & Associate Professor D. Jahier Pagliari

Description This thesis studied the potential to use low-powered sensors in mobile devices with a Convolutional Neural Network to help reduce battery usage. I developed an Android app in Java to collect the training and testing data, and implemented the CNN using Python and PyTorch.

Professional Experience

09/2020– **Associate Solutions Architect**, AMAZON WEB SERVICES, Milan.

Present My main role as a Solution Architect in AWS involved working directly with greenfield clients in the retail space. I've presented AWS to multiple large Italian companies, and assisted them in developing new applications on AWS or migrating parts of their infrastructure from on-premises to the cloud. While working with AWS, the first 5 months were dedicated to studying the platform's services. I've personally used multiple services like EC2, Lambda, API Gateway, DynamoDB, RedShift, CloudWatch, S3, SNS, Amplify and GraphQL to name a few. During this period I also developed a couple of file hosting services fully on AWS to fill in some missing gaps in the tools we had at the time.

05/2019– **Programmer**, REPLY S.P.A, Turin.

08/2020 Worked and lead on multiple projects for external clients. The majority of the time I worked as an iOS developer and maintainer, developing a couple of apps while also managing launches along with my counterparts on Android. I also worked as a backend developer on other projects, mainly creating backends in node.js

Detailed projects:

- **Beretta Firearms**

My work on the Shooting Data project involved learning Objective-C and then taking over the role of primary iOS developer on the app, alongside the role as maintainer of a parser for data collection. As maintainer of the parser, I had to interact directly with the clients, use the Azure IoT Hub, and update the parser written in java.

- **Vodafone**

For this project, I maintained the main backend in node.js for the Smart@Home Vodafone Platform. This required managing multiple databases for each development environment and general maintenance of the backend for push notifications. The main technologies used were node.js, MySQL, and multiple AWS technologies such as SQS, SNS, ECS, RDS, etc.

- **Fondazione Torino Musei**

On this project, I was given the role of developing the iOS app and designing the backend with Firebase Cloud Firestore. I also had the opportunity to study and implement some Firestore Cloud Functions to keep the data synchronized.

- **Caleffi**

I worked as an iOS developer on the project, which required designing multiple API calls to our backend, and to develop an interaction flow between a gateway and iPhone via bluetooth commands.

Certifications

- 2021 AWS Certified Developer - Associate
- 2020 AWS Certified Solutions Architect - Associate
- 2020 AWS Certified Cloud Practitioner

Computer skills

Cloud services

- Advanced AWS
- Basic Microsoft Azure, GCP

Programming Languages and tools

- Advanced Objective-C, C, node.js, Git
- Intermediate Java, Python, Swift, php, SQL, assembly (8086, MIPS, ARM)
- Basic Kotlin

Databases

- Advanced DynamoDB
- Intermediate Relational Databases (Oracle, MySQL)
- Basic Firebase Realtime database, Amazon RedShift

Personal Skills

Ability and will to quickly learn new technologies. I was hired to work with Concept Reply as an iOS developer, while having no knowledge of Objective-C, Swift, or having ever used Xcode. By the first week I was developing portions of the app, and within 3 months I was able to work completely independently on a large project. After 5 months I was given complete control over the iOS app, including having to manage new releases on the app store. After 8 months working on the project, I was given complete control over the parser, where I've had to learn how to develop and manage one of the most vital parts of the project.

I've also developed good teamwork and relational skills by working in close contact with other teammates on various projects, while also presenting or pitching our findings directly to clients to get their feedback on solutions we were delivering.

Languages

English	Mothertongue	C2
Italian	Mothertongue	C2
French	Basic	A2