

EMANUEL BARRERA ESTRELLA

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🐙 github.com/emanuel0918

🎓 EDUCATION

Computer Systems Engineering, B.S. | Superior School of Computer Sciences [↗](#)
Computer Science as Major, learned algorithms and data structures at the Competitive Programming Club

JAN 2017 - JAN 2022
CGPA: 92 out of 100 (3.70/4)

Computer Programmer, Technical Track | Center of Scientific and Technological Studies #9
Developed Heatmap¹, a long-term project in a team of four people where I've improved my leadership

AUG 2013 - JUNE 2016
CGPA: 87 out of 100 (3.48/4)

💼 WORK EXPERIENCE

Software Engineer II @ HCLTech ClearCase and VersionVault Express ®

March 2022 - Present

- Developed ClearCase on Windows & Linux conversion from 32 bits architecture to 64 bits architecture.
- Developed the HCLTech VersionVault Express ® API using the Java Framework SpringBoot on Apache.
- During the Review Board integration I developed Python3.8 scripts (Django) to interoperate with Java.

New Jersey,
U.S.A.

Back-End Developer | Applab [↗](#) | Major in API Development

April 2021 - Feb 2022

- Developed a Bot that read mails and parsed the customer's requests (Spring Boot @Scheduled Java)
- Optimized the Back End via automatic tests on the API and learned from security using tokens on the web service.

🔧 MAJOR PROJECTS

Nutritional Classifier

Mobile App for Android OS to classify products using their nutritional facts. Developed an OCR for parsing the info, used an ML algorithm for classifying and used an internal database to reduce the client connections to the cloud MongoDB server. The UI got a navigation drawer to filter the products and these were displayed dynamically in a featured card listview adapter.

Whatsapp BOT

Bot that connected a normal Whatsapp User Account online on the Desktop App and used the GUI to read the messages using Python 3.8 and the clipboard from the OS.

Heatmap¹

[↗ github.com/emanuel0918/Heatmap](https://github.com/emanuel0918/Heatmap)

Heatmap is a software that warns the community from crime in the Mexico City using square zones on the Google Maps API

★ SKILLS

🔧 PROGRAMMING LANGUAGES

4 YEARS: Java | *mostly for Android and BackEnd dev*
4 YEARS: C | *developed ClearCase 32 to 64 bits conversion*
2 YEARS: Python | *worked Django framework in ReviewBoard*
3 YEARS: C++ | *developed ClearCase 64 bits conversion*
1 YEAR: JavaScript | *mostly Front-end development*
6 MONTHS: PHP | *for web development on scholar projects*

🏆 LEADERSHIP AND AWARDS

- ✓ International Academic Exchange Program at Technical University of Madrid [↗](#), Spain (2020)
- ✓ Student of Academic Excellence at the Superior School of Computer Sciences (2017 - 2021)
- ✓ Participated with three artworks at an exposition (2019)

📱 TECHNOLOGIES OF EXPERTISE

Android SDK, Android Studio, Azure Console CLI, Bootstrap, CSS, Eclipse, Flask, Firebase ML Vision Analytics, Git, Google API Console, HTML, IntelliJ, Jenkins, jQuery, Makefile, Material Design, MongoDB Atlas, Netbeans, RegEx, Oracle Cloud, Postman, PostgreSQL, SQL, Spring Boot, Swagger, Vue.js, VS Code, Vagrant, Vim, VirtualBox, Arduino, Windows Batch, Linux.

🌐 ONLINE COURSES

- ◇ O'Reilly Online Training - Introduction to Containers: Docker (2022)
- ◇ TOEFL ITP Certification - **Score 500 (CEFR B1 Lv)**
- ◇ GoodTyping -> how to type using all fingers in QWERTY keyboard - **Keystrokes Per Minute (KPM) +260**