

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

Expected Graduation date
on January 2022
CGPA: 92 out of 100 (3.71/4)

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
New Jersey, U.S.A.

- Developed the API for an architecture on an appliance designed on an instance running a Red Hat OS image.
- Deployed this appliance inside Azure cloud resources and tested the ssl certificates on the API.
- During the Review Board integration, I updated the python scripts that fixed the server functionality.

🔗 MAJOR PROJECTS

Nutritional Classifier - 2022

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.

zerocopyMQ - 2020

Message system that managed packets of +16KB and neither the clients nor the server stored copies to improve efficiency

Heatmap¹

🔗 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 database using Zen*
2 YEARS: Python | *worked Django framework in ReviewBoard*
3 YEARS: C++ | *mostly for competitive programming*
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 🔗: Learned how to type using all fingers in QWERTY keyboard - **Keystrokes Per Minute (KPM) +260**