

EMANUEL BARRERA ESTRELLA

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🎓 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 (3.66/4)

Scholar Internship

Informatic Engineering, B.S. | Superior Technical School of Informatic Engineers
Technical University of Madrid ↗ | Completed from the classroom to the virtual modality.

JAN 2020 - JULY 2020
MADRID - SPAIN

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)

🔧 MAJOR PROJECTS

zerocopyMQ

🐙 github.com/emanuel0918/zerocopyMQ ↗

Distributed system that sends messages longer than 2KB and neither the clients nor the server stored copies of these in the process, saving memory to improve efficiency.

AppNewspaper

🐙 github.com/emanuel0918/AppNewspaper ↗

Mobile App for Android OS to manage articles and store them in a cloud resource for +1000 items and displayed dynamically in a card-list component. The app has an internal database to locally keep these articles to reduce connections to the server.

Heatmap¹

🐙 github.com/emanuel0918/Heatmap ↗

Heatmap is a software that warns the community from crime in the cities using a map, when a crime is reported, a location spot is stored and other locations around update the map marking if a zone is dangerous to a citizen !

G E S Events

🐙 github.com/emanuel0918/GesEventos ↗

This software supported an academic event ↗, coordinated dynamic invitations to +500 participants and saved time on attendance. Prepared a dynamic map that displayed the seats management focused to help handicap people sit closer.

★ SKILLS

🔧 PROGRAMMING LANGUAGES

4 YEARS: Java
3 YEARS: C / C++ ; mostly for competitive programming
2 YEARS: JavaScript ; on FrontEnd
6 MONTHS: PHP

🏆 LEADERSHIP AND AWARDS

✓ Student of Academic Excellence at the Superior School of Computer Sciences (2017 - 2020)
✓ Developed 3 master pieces in an art exposition (2019)
✓ Honorable Mention at the Mexico Physics Olympiad (2015)

🔧 TECHNOLOGIES OF EXPERTISE

Linux, SQL, HTML, CSS, XML, LaTeX, Git, Vim, GIMP, Weka, Apache Tomcat, Materialize, Material Design, Android SDK, Android Studio

🌐 ONLINE COURSES

🔖 GoodTyping ↗: Learned how to type using all fingers in QWERTY - **Keystrokes Per Minute (KPM) +300**
🔖 Data Mining with Weka ↗ : Online Course by The University of Waikato to introduce Machine Learning