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)

Student Exchange Program
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 Heatmap[1], 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 - 2020** | ⌨ github.com/emanuel0918/zerocopyMQ ↗
Message system that managed packets of +16KB and neither the clients nor the server stored copies to improve efficiency.

· **Andrew File System - 2020** Distributed file system that could store files with tokens to lock invalid versions of multiple users.

· **AppNewspaper - 2020** | ⌨ github.com/emanuel0918/AppNewspaper ↗
Mobile App for Android OS to manage articles. The UI got a navigation drawer to filter the articles and these were displayed dynamically in a card list view component.

· **Heatmap[1] - 2016** | ⌨ github.com/emanuel0918/Heatmap ↗
Heatmap is a software that warned the community from crime in the cities using a map, when a crime was reported, a location spot was stored and other locations around updated the map marking if a zone was dangerous to a citizen !

· **G E S Events - 2018** | ⌨ 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 | *developed Heatmap and used RMI for AFS*
3 YEARS: C / C++ | *mostly for competitive programming*
2 YEARS: JavaScript | *mostly for FrontEnd development*
6 MONTHS: PHP | *developed GES Events*

📱 TECHNOLOGIES OF EXPERTISE
Windows, Linux, SQL, HTML, CSS, XML, LaTeX, Git, Vim, GIMP, Weka, Apache Tomcat, Materialize, Material Design, Android SDK and Android Studio

⚇ LEADERSHIP AND AWARDS
✓Student of Academic Excellence at the Superior School of Computer Sciences (2017 - 2020)
✓Participated with three artworks at an exposition (2019)
✓Honorable Mention at the Mexico Physics Olympiad (2015)

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