

# EMANUEL BARRERA ESTRELLA

✉ [emanuelbarrera98@gmail.com](mailto:emanuelbarrera98@gmail.com)

☎ +52 1 55 4089 1179  
🌐 [emanuel0918.github.io](https://emanuel0918.github.io)

🐙 [github.com/emanuel0918](https://github.com/emanuel0918)  
🔗 [linkedin.com/in/emanuel0918](https://linkedin.com/in/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 (3.66/4)

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 Heatmap<sup>1</sup>, 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](https://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](https://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.

### Heatmap<sup>1</sup>

🐙 [github.com/emanuel0918/Heatmap](https://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](https://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

### 🏆 AWARDS

✓ Student of Academic Excellence at the Superior School of Computer Sciences (2017 - 2020)  
✓ Honorable Mention at the Mexico Physics Olympiad (2015)

### 🔧 TECHNOLOGIES OF EXPERTISE

SQL, HTML, CSS, XML, LaTeX, Git, Vim, GIMP, Google Docs, Weka, Apache Tomcat, Materialize, Material Design, Android SDK, Android Studio and Arduino  
Windows, Linux, Android, Xbox, Nintendo and Mac OS

### 🌐 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