

# 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 ↗ | SMILE Agreement

JAN 2020 - JULY 2020  
MADRID - SPAIN

Computer Programmer, Technical Track | Center of Scientific and Technological Studies #9 ↗  
Developed Heatmap - detailed below - 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](https://github.com/emanuel0918/zerocopyMQ) ↗

Distributed message system which communication design requires a queue functionality to manage the messages in an individual process (called broker) and neither the clients nor the server store copies to improve the efficiency.

### AppNewspaper (2020)

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

App developed in a team of three people to manage articles. The info was stored in a cloud resource keeping 1000+ articles. The app required an internal database to locally keep these articles to reduce connections to the server.

### Heatmap (2015)

🐙 [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 !

### GesEventos (2018)

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

Developed for the Polytechnic Merit Awards ↗ ceremony. Coordinated dynamic invitations to 500+ participants and saved time on attendance. Prepared a dynamic map that displayed the seats management.

## ★ SKILLS

### 🔗 PROGRAMMING LANGUAGES

4 YEARS: Java  
4 YEARS: C  
3 YEARS: C++ ; mostly for competitive programming  
3 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

Linux, MySQL, HTML, CSS, XML, LaTeX, Git, JSP, Weka, Android SDK, Apache Tomcat, Vim, GIMP, Materialize, Bootstrap and Android Studio

### 🌐 ONLINE COURSES

◇ Data Mining with Weka ↗ : Online Course by The University of Waikato to introduce Machine Learning  
◇ GoodTyping ↗ : Course to learn how to correctly type using all fingers