

EMANUEL BARRERA ESTRELLA

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EDUCATION

Computer Systems Engineering, B.S. | Superior School of Computer Sciences ↗
National Polytechnic Institute of Mexico ↗

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 ↗

JAN 2020 - JULY 2020
MADRID - SPAIN

Computer Programmer, Technical Track | Center of Scientific and Technological Studies #9 ↗
License Number 10949359

AUG 2013 - JUNE 2016
CGPA: 87 out of 100 (3.48/4)

MAJOR PROJECTS

Heatmap (2015)

🐙 github.com/emanuel0918/Heatmap ↗

Heatmap is a software that warns the community from the crime in the cities using a map that marks the dangerous zones.

FrontEnd: HTML, CSS, Bootstrap, JS and GOOGLE MAPS API.

BackEnd: Java, Glassfish Web Container and MySQL.

GesEventos (2019)

🐙 github.com/emanuel0918/GesEventos ↗

Developed for the Polytechnic Merit Awards ↗ ceremony. This project involved 544 participants so automatically generates files that help the managers with the delivering of prices.

FrontEnd: HTML, CSS, Bootstrap, JS, JQuery, AJAX and QR.

BackEnd: PHP, MySQL, MPDF and PHPMAILER.

zerocopyMQ (2020)

🐙 github.com/emanuel0918/zerocopyMQ ↗

Message Service which communication design requires a Queue functionality to manage the messages in a individual process called broker and neither the clients nor the server store copies to improve the efficiency.

Developed: C and using TCP sockets to ensure transmission.

AppNewspaper (2020)

🐙 github.com/emanuel0918/AppNewspaper ↗

App developed to manage articles, uses an internal database to store the articles in order to reduce connections to server.

FrontEnd: XML, Navigation Drawer and Material Design.

BackEnd: Java, Android SDK, JSON and SQLite.

SKILLS

PROGRAMMING LANGUAGES

5 YEARS: Java

4 YEARS: C

3 YEARS: C++ ; mainly for competitive program

3 YEARS: JavaScript ; on FrontEnd

1 YEAR: PHP

ONLINE COURSES

◇ GoodTyping ↗: Course to learn how to correctly type using all fingers.

◇ Data Mining with WEKA ↗: Online Course by The University of Waikato to introduce Machine Learning

◇ Microsoft Learn ↗: Virtual Machine Deployment

TECHNOLOGIES

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

AWARDS

✓ Student of Academic Excellence

Superior School of Computer Sciences (2017 - 2020)

✓ Honorable Mention

at the Mexico Physics Olympiad (2015)

✓ Cambridge ESOL Entry Level Certificate in ESOL
International PET (2010)