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Education

GRADUATING IN JUNE 2021

GPA 93/100

Escuela Superior de Computo - Instituto Politecnico Nacional

Bachelor of Engineering in Computational Systems

Attending to the ACM Student Chapter (also known as "Club de Algoritmia")

Top ranked student for 6 consecutive semesters.

Major Projects

WINTER 2018

Auxiliary system for the elaboration of study programs

(Academic Program Management System as intern project name -

<https://softwareengineerescom.gitlab.io/APMS/public/login>)

Auxiliary system for the creation and management of the learning units at my university.

- Designed and developed as RESTful service (<https://github.com/SoftwareEngineerESCOM/APMS-Server> / <https://gitlab.com/SoftwareEngineerESCOM/APMS-FRONTEND>);
- Worked as a simulation of real project in collaboration with 24 teammates, our professor and a real client;
- In charge of a group of two persons in the backend operations related to the database (postgres);
- Also, worked with the rest of the backend, analysis and communication with the client;
- Built with Angular & Spring-Boot, documented with LaTeX and testes with Selenium.

WINTER 2018

IPN-Awards

(<https://github.com/akotadi/IPN-Awards>)

System developed to manage the organization, execution and generate statistics of an award event for the IPN.

- Developed in PHP for the backend and JavaScript (with jQuery and CSS) for the frontend;
- Simple CRUD for users and assistants, but also capable to interact with emails, messages and notifications;
- Integration of a QR reader library for instant check of the assistants;
- Generation of awards and invitations in pdf from a template;
- Project Manager of a team of 5, focused in all the backend and important features in the frontend.

SPRING 2018

Webelective

(<https://github.com/akotadi/Webelective>)

A webpage for manage the elective hours (ex: cultural, sport, recreation) of the students.

- Designed and developed in PHP with all the steps for a project like requirements, process, diagrams, etc.;
- A portal web multiplatform like computer, smartphone and tablets;
- With a previous free template, used reverse engineering for adapt it to the project;
- Project Manager most in charge of the adaptative of the page, analysis and design of the system.

Skills

PROGRAMMING LANGUAGES

- 2.5 years: C/C++
- 1.5 year: Java, Javascript
- 6 months: PHP, Python

TECHNOLOGIES

HTML, CSS, Git, Unix/Bash, JQuery, Ajax, Spring Boot, LaTeX, node.js, socket.io, Typescript, ReactJS

COURSES

- **Data Science** by Harvard (edX, in progress)
- **Mobile App Development with React Native** by CS50 Harvard (edX, in progress)

RDBMS

- MySQL (1.5 year)
- Postgresql (6 months)
- MongoDB (4 months)

PLATFORMS

- Windows (user)
- Linux (user)

LANGUAGES

- Spanish (native)
- English (fluent – TOEFL ITP 570)
- Italian (basic – B1)

Awards

- **3rd place** in 2nd date of "Gran Premio of México & Centro América" (hosted by FES Acatlán) – ACM Programming Contest, team "404.Globito Not Found", May 2019
- **5th place** in XI Annual Programming Contest "Donald E. Knuth" by IPN – ESCOM, team "ExpoESCOM", June 2019
- **27th place** in Mexico Scoreboard (without assist to the second date) – ACM Programming Contest, team "Thundercats", 2018