

## PROFILE

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Hardworking passionate profesional, currently studying a Msc. in Computer Science. With experience in software development, which taught me to translate my hard-skills to useful products. Highly responsible on my work. Excited to learn more, try new things, face challenges, and to help.

## EDUCATION

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- **IT University** Copenhagen, Denmark  
*Master of Science in Computer Science* Aug. 2020 – Present
- **Universidad La Salle** Mexico City, Mexico  
*Bachelor of Engineering in Electronics and Communications; GPA: 4 (9.76/10.0)* Aug. 2012 – Nov. 2016
- **Universidad Nacional Autónoma de México** Mexico City, Mexico  
*Bachelor of Mathematics* Aug. 2014 – Jul. 2018

## EXPERIENCE

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- **ABaCus DK** Copenhagen, Denmark  
*Student Developer* Nov. 2020 - Jan. 2021

I learned to work in a different culture, exploring a software developed by several people, with different work styles.

- **Features, bug fixes for main product:** Wrote fixes for minor bugs. Also the frontend and backend for pages displaying statistics for the teacher and students. The project used PHP/Symfony, JS/React.

- **TIDE** Mexico City, Mexico  
*Software Engineer* Jan. 2019 - Aug. 2020

I developed many useful skills, learned to deliver fully functional products and to take responsibility for them as a team. Designed and implemented creative solutions with several technologies.

- **Employee time clock:** Raspberry Pi's with multiple identification and synchronization features. Integrated sensors SDK's (C/Java), implemented features for the main service (Node.js), and UI(React)
- **Airport Lounge app:** Android/iOS app with React Native. Several features, integrated to an existing backend and created a backend-for-frontend for other features (Node.js/sails.js). Other technologies used: Redux, Firebase FCM
- **Scotiabank's online pride parade:** Basic MMORPG for 2020's stay@home Pride Parade. AWS/EC2 instances running a Phaser.js game, connecting to WebSocket servers (Typescript). Redis used for chat features.
- **IOT devices monitor:** Utilities to provide software updates, remote SSH access and stats recopilation for remote technical support. Implemented features on both sides (Node.js, PHP/Symfony, React, Linux scripting).
- **Coca-cola promotional game:** Soccer game for marketing stands of Coca-cola running on Raspberry Pi's, controlled by a Wii controller. Created with Python/Pygame.
- **Airport Lounge software:** Software spanning several company areas. Implemented several features, on both backend (PHP/Symfony) and frontend (React/Redux).
- **Restaurant software:** Highly customized restaurant software. Implemented several features, on both backend (PHP/Symfony) and frontend (React/Redux).

- **VtSoftware** Playa del Carmen, Mexico  
*Software Engineer* Jun. 2017 - May 2018

I learned how to translate my academic knowledge to useful software. One of the most important skills I learned is to listen to the client requirements and design accordingly.

- **Vacation Clubs Payroll Software:** Modeled and designed according to customer needs. Bootstrapped project on PHP/Laravel and Vue.js, integrated to an existing sales system DB. Also wrote some SQLServer stored procedures.

- **Hotel Inventory Software:** Modeled and designed according to customer needs. Bootstrapped project on PHP/Laravel and jQuery.

- **École de Technologie Supérieure**  
*Research Internship*

Montreal, Canada  
*Apr. 2015 - Jul. 2015*

- **Estimation of disparity on GPUs:** Research on disparity estimation algorithms and implementation on Matlab and then using C/CUDA

## OTHER EXPERIENCE

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- **Teaching activities:** Private tutor on mathematics and programming, mostly focusing on kids (from 9 to 16). Social Service as an English teacher for adults.

## ACADEMIC ACTIVITIES

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- **ANFEI's award:** Highest GPA on engineering faculty. Graduated with Magna Cum Laude.
- **Robotics Winter School. 2013:** INAOE, Puebla, Mexico.
- **Robotics competitions. 2011 - 2013:** Participation on Robocup competitions with the school robotics team. Istanbul, Turkey and Mexico City.
- **Programming competitions.:** IEEEExtreme Programming competitions.

## SKILLS I'VE WORKED WITH

### LANGUAGES

JS, TS, Node.js, Python, C, Java, SQL, PHP, Matlab

### TECHNOLOGIES

- **Frontend::** React, Redux, React Native, Vue.js, Phaser, eCharts.
- **Backend::** Laravel, Symfony, Redis, Socket.io, Express, Sails.js
- **Other::** Linux, Raspberry Pi, AWS, Git, SVN, Nginx

## OTHER SKILLS

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C++, Microchip PIC Assembler, Arduino, Eagle.