# Lucas Gandara

## Contact information

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## Professional profile

I am a master's student in Software and Computer Engineering at Universidad de los Andes, with a rich background in web development. My expertise spans a variety of programming languages, frameworks, and technologies, including React.js, TypeScript, Angular, and Python. In my most recent role as a Software Engineer Developer at Unosquare, I specialized in developing user interfaces using React and Angular, leveraging both JavaScript and TypeScript to create responsive and dynamic experiences.

Beyond web development, I possess a strong foundation in robotics, having acquired practical knowledge of ROS and ROS2 frameworks. This proficiency was demonstrated in my degree project, where I successfully developed a self-driving algorithm using DRL for a TurtleBot3 mobile robot within the Gazebo simulation environment. This project not only honed my technical skills but also underscored my ability to integrate complex systems and contribute to the cutting-edge field of autonomous robotics.

## Work Experience

Unosquare – Software Engineer                                      09/2023 – Current

- ● Athenahealth:
    - o Part of the Nimbus team in charge of the migration of the Schedule builder, Appointment schedule and graphql layers apps from webpack to vite in order to use Nimubs, an own deployment system. I'm currently working on the migration of the test suite to use vitest instead of jest runner. Adding documentation to the project using techdocs and Backstage and including devtools to facilitate the work in development mode.
    - o Improve the Scheduling builder application written in react with Typescript. Using some other third party libraries such as react formik, react-select, css modules, Graphql, Cypress.
    - o Improvement on the template edit section of the application to add features and fix bugs.

Anthology – Software Engineer                                      11/2022 – 06/2023

- ● Improve the LMS platform LEARN and migrate the site from AngularJS to React and Redux and Typescript.
- ● Ensure the quality of the functionalities by creating unit tests (in Jest with Testing library and Jasmine with enzyme) for different components and custom hooks in all packages.
- ● I implemented the hide/show the messages tool within the application following the established business logic thus achieving the flexibility required by users to adopt Learn ultra product. Migrating legacy services written in angular to react hooks.
- ● I wrote the configuration to debug the entire learn-ultra project within the Visual Studio Code editor and share it with all developers working on the project.

Blackboard – Associate Software Engineer                          07/2021 – 10/2022

- ● Improve Collaborate (Virtual Classroom Tool) and migrate the site from AngularJS into React and Redux, the purpose of this migration is to use Chime's AWS SDK as the media service instead of MCU to improve customer experience.
- ● Ensure feature quality by creating Unit testing (in Jest and Jasmine) for different components and custom hooks across all of the packages, there are different packages in monrepos used in the platform.
- ● Work in an agile environment using the SAFe framework.
- ● Cooperate with the QA team to implement E2E testing using Selenium and Ruby.

- I implemented breakout rooms functionality using the Chime SDK as well as alerts that informed the user when they were moved from the room.
- I migrated several of the components of Collaborate UI Session from Angularjs to React (Ts) such as the rich text editor, the configuration of the creation of the breakout rooms, the away state manners, among others

Pevaar Software Factory. – Junior Web developer                                06/2020 – 01/2021
- Maintenance of an application for the Ministry of Interior Colombia. Part of my maintenance functions were to solve bugs of functionalities or problems of styling of the page using AngularJS templates with plain Bootstrap and CSS. Also, business logic problems such as inconsistencies in the database or logic to show or hide information.
- Implementation of new functionalities within the application for the Ministry of the Interior. Among these new features were to add new views where the user was able to fill out entire forms, validate them and save them in the database. These views are added responsively and implemented in AngularJS with bootstrap.

# Education
Master in Software and Computer Science, Universidad de los Andes 2022– 2024.
Mechatronic Engineer, Universidad Militar Nueva Granada 2014-2021

# Tech Stack
- Wide  experience in SPA applications written in React with typescript, implementing functional components and testing them with the Testing library.
- Solid knowledge in Angular, both the MVC model of angularJs and MVW of Angular 2.
- Experienced with Microsoft Azure Devops services programs and applications for work management, as well as other similar software such as Jira, confluence, and other version control software such as GIT, GITHUB, and Bitbucket.
- Robust knowledge in programming languages: Javascript, Typescript and Python.
- ROS1, ROS2 Framework (Gazebo, Rviz).

# Languages
- Spanish - First Language
- English - C1