

# GUZMAN VIGLIECCA

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## EDUCATION

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### **Northeastern University, Boston, MA**

College of Computer and Information Science.

Sept. 2019 - May 2021

Master of Science in Computer Science.

GPA: 4.0

Related courses: Programming Design Paradigms, Mobile Development, Algorithms,  
Software Engineering, Machine Learning, Software Vulnerabilities.

**Awards: Fulbright Scholarship.**

### **Uruguay State University, Uruguay**

Bachelor's Degree in Electronic Engineering.

Mar. 2011 - June 2017

Related courses: Object Oriented Programming, Behavior-based Robotics,  
Real Time Embedded Systems, Numerical Methods.

## TECHNICAL KNOWLEDGE

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**Languages:** Python, Typescript, Java, Javascript, C, C, C++, Dart

**Frameworks:** Android, ReactJS, .NET, Flutter, Express.js, Qt C++.

**Software:** AWS, Git, Android Studio, Unity, Matlab.

**Systems:** Linux, macOS, Windows.

## WORK EXPERIENCE

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### **Lattice Automation - United States**

June. 2021 - Present

*Software Engineer*

- Developing software for synthetic biology applications. Doing mostly full-stack development, using AWS services and Python for the backend, and React for the frontend.

### **ORT University - Uruguay**

August. 2022 - Present

*Software Engineer Professor*

- Teaching the course Application Design, a Software Engineering course where students learn software design, design patterns, TDD and other concepts.

### **Northeastern University - United States**

Sept. 2020 - May 2021

*Graduate Teaching Assistant*

- Teaching Assistant for the graduate course Mobile Development.
- Supporting the professor by grading assignments, holding office hours, writing sample codes and other course-related tasks.

### **Amazon - United States**

May. 2020 - August 2020

*Software Development Engineer Intern*

- Software Engineer Intern in Amazon's Alexa Health team. Developed a webapp in ReactJS that interacted with several AWS services and an Alexa Skill.
- Setup and configured AWS services such as AWS Cognito, AWS DynamoDB, AWS Lambda, and others for the webapp backend.
- Created an Alexa Skill that received queries from the user and interacted with the webapp to provide a response.

**Ikatu - Uruguay**

Sept. 2017 - July 2019

*Software Developer*

- - Developed three Android applications related to home automation in Java.
  - Created a JavaScript application that allowed one of the company's home controllers to interact with the Google Assistant (Assistant's App).
  - Used the C++ SDK of a Multi-touch screen to develop the software of an interactive showroom.
  - Proposed changes in the implementation of different technological products in order to make them compliant with the GDPR data protection european law.

**Electric Vehicle Design - Uruguay**

May - Sept. 2017

*Assistant Engineer*

- - Worked in conjunction with Engineers and Ph.D.'s from the University of Río Cuarto, Argentina to design and build the control system of an electric car.
  - Developed the firmware of different micro-controllers in C that interacted with the sensors of the car and were used as the input for the control system.

**Universidad de la Republica University - Uruguay**

Aug. 2015 - Mar. 2018

*Assistant Engineer and Mathematics Assistant Professor*

- - Assistant professor of undergraduate Analysis and Linear Algebra courses of the Mathematics Department, giving lectures and grading projects and tests, over the course of 5 semesters.
  - Assistant in the Electrical Department in a project that aimed to design and develop an autonomous platform to remotely sense water quality. Designed and developed part of the micro-controller's firmware in C.