

# Juan Agustin Gregorieu

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## EDUCATION

**Northeastern University**, Boston, MA, USA September 2019 - May 2021

Khoury College of Computer Sciences

*Master of Science in Computer Science*

GPA: 4.00

Relevant Courses: Large-Scale Parallel Data Processing, Information Retrieval, Algorithms, Machine Learning, Software Security Vulnerabilities, Computer Systems, Artificial Intelligence, and Programming Design Paradigm.

Projects:

- **Truco AI**: Created a set of AI agents capable of playing a popular card game called "Truco". Used Python to develop a MiniMax (with Alpha-Beta Pruning) agent, and a Q-Learning agent.
- **Distributed K-Means**: Designed and Developed a distributed version of K-Means using Scala and Spark. The goal was to find interesting patterns in a dataset full of tweets of American politicians.
- **Hacker News Search Engine**: Improved the way relevant results were retrieved by the Hacker News search engine. Used Solr and Java to generate the index from a dataset full of HN posts.

**Awards: Fulbright Scholarship.**

**Universidad Tecnologica Nacional**, Cordoba, Argentina Mar 2013 - Dec 2017

*Bachelor of Engineering in Information Systems Engineering*

GPA: 4.00

Relevant Courses: Algorithms and Data Structures, Systems Analysis and Design, Software Engineering, Web Development, Artificial Intelligence.

Projects: **PriHood**

- Developed a hybrid mobile app capable of automating several processes of life in private neighborhoods. Used: Ionic, Angular, C# (.Net Core), and MySQL.

## EXPERIENCE

**EngagedMD**, Washington DC, USA

September 2021 - Present

Software Engineer

- Developing the back-end side of the EngagedMD platform. Currently using NodeJS, Strapi, PostgreSQL, GraphQL, Prisma, Docker, AWS SDK and AWS cloud tools.
- Normalized and optimized the underlying database model we are using in our platform. Worked on several proofs of concept to split the database and back-end services into multiple micro-services to create a scalable product.
- Contributed to the development of the front-end side of the EngagedMD platform. Used React with Typescript, Redux Toolkit, and NextJS.

- Refactored and added Cypress end-to-end tests to our current platform. Prepared a document with guidelines to implement maintainable and independent tests that could be run in parallel to make efficient use of the underlying resources.
- Integrated DocuSign to our platform by wrapping their template and envelope services around the DocuSign SDK and DocuSign Connect.
- Designed, implemented and optimized an algorithm that simplifies a DocuSign routing problem our Customer Service team was facing when creating DocuSign envelopes. This algorithm will considerably reduce the number of steps needed to gather all the signatures needed in the envelopes generated.
- Created a process to provide an efficient way of generating branches and Pull Requests in our source code. This standardized the way we push changes to our repository, making it easier to keep track of our tasks and avoid conflicts.
- Prototyped an internationalization system that will feed our main platform with translations for different languages. Used Strapi and NextJS.
- Participated in the code review of potential candidates. And contributed to the creation of case studies to evaluate different skills and aspects of future applicants.

**AroundU**, Washington DC, USA  
Software Engineer

May 2021 - August 2021

- Designed, documented, and developed an Android application whose purpose is to connect and allow communication between students around universities' campuses.
- Implemented accessibility features to allow everyone to use the Android application.
- Created and deployed an admin panel to connect promoters and students. Used React and AWS Amplify.

**OmnyLaunch**, Santa Clara, CA, USA  
Lead Software Engineer - KittsCoaching App

Jan 2021 - May 2021

- Designed, developed, and documented a fitness coaching mobile application. The app allowed to keep track of the client's workout program, its nutrition data, progress pictures, and chat with his assigned coach. Used Flutter and Firebase SDK.
- Implemented an admin website to give access to the clients to the app. Also allows to create new programs and assign them to each client. A coach can communicate with his assigned clients using a chat feature, establish nutrition goals, and see progress pics uploaded by them. Used ReactJS with Hooks, and Firebase SDK.

**Northeastern University**, Boston, MA, USA  
Teacher Assistant for Computer Systems

Jan 2021 - May 2021

**Northeastern University**, San Jose, CA, USA  
Teacher Assistant for Information Retrieval

Jan 2020 - May 2020

- Proctoring exams, grading tests and assignments, and attending lectures.
- Responsible for performing teaching or teaching-related duties to assist faculty members, professors, department heads, and other faculty.
- Tutor and mentor students. Schedule and maintain regular office hours to meet with students.

**Globant (Disney Studios)**, Córdoba, Argentina

Mar 2018 - July 2019

Front-End Developer

- Collaborated with teams located in different parts of the world for maintaining, expanding, and scaling the new espn.com website by using standard REACTJS and unit testing practices.
- Designed a formula using Google Spreadsheets to recommend the next three DEMO presenters, which reduced the time of the pre-demo sessions by 5 minutes.
- Implemented a command-line tool using Shell Scripts that would abstract the developers from the task of following standard commit messages format, reducing the time a new feature or fix had to wait until being included in production.
- Trained incoming employees on the project's structure and best practices.

**Freelance Project - Databoard (Oulton Hospital)**, Córdoba, Argentina May - July 2019

Full-Stack Developer

- Developed a board that allows secretaries to follow the patients' studies process in real-time by using ReactJs, PostgreSQL, and NodeJs/Express, which increased the efficiency of the mentioned process and therefore increased the clinics' profits.
- Integrated the hospital database with the web application's database.
- Cooperated with the hospital's systems department to implement the web application on the intranet.

**InformeMedico.com.ar**, Córdoba, Argentina

Mar 2017 - May 2021

Full-Stack Developer

- Developed and implemented efficient diagnostic imaging and administrative systems across health care providers around Argentina. Mostly PACS and RIS systems, electronic health records systems, resources monitoring systems, and resource scheduling systems. Used Python, Pascal, Javascript, HTML, CSS, and PostgreSQL.
- Initiated and developed inner tools to keep track of potential problems in our client's servers using Shell script and Python.
- Collaborated with the secure migration of patients' data from local storage to services on the cloud such as S3 using Python and PostgreSQL.
- Created automation scripts to process large volumes of data across the clinics' databases. One of these script's goals was to generate videos from DICOM files that adapted their resolution to the client's network bandwidth.
- Designed and developed a mobile application to allow physicians to attach recordings to patients' studies by using Flutter (Dart), Python, and PostgreSQL.
- Contributed to the development of a highly efficient server-side rendering tool to display and process images from a patient's studies and avoid overloading the browser using C++ to ensure high efficiency.
- Wrote and maintained technical documentation to describe program development, logic, coding, testing, changes, and corrections.

**LICENCES AND CERTIFICATIONS** **Apache Spark with Scala - Hands On with Big Data**

Jun 2021

Udemy

<https://www.udemy.com/certificate/UC-e66ca8bd-dde6-486c-bed4-e233e3553cf0/>

**TECHNICAL  
KNOWLEDGE**

**Programming Languages:** Scala, Python, C#, Java, Pascal, JavaScript, C, C++.

**Operating Systems:** MacOS, Windows 10, GNU/Linux (Debian / CentOS).

**Big Data/Information Retrieval Technologies** Solr, Apache Spark, Hadoop MapReduce.

**Web Backend Technologies:** NextJS, Strapi, KeystoneJS, NodeJS, Express, Apache, .NET CORE, BrookFramework.

**Web Frontend Technologies:** NextJS, ReactJS, Vanilla JS, Bootstrap, Material UI.

**Mobile Technologies:** Flutter.

**Cloud Providers:** AWS, AWS EMR, AWS S3, DocuSign, Firebase.

**Operating Systems:** MacOS, Windows 10, GNU/Linux (Debian / CentOS).

**Databases** PostgreSQL, MySQL, MongoDB.