

Abraham Cepeda

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EDUCATION

Monterrey Institute of Technology and Higher Studies (ITESM)

BS in Computer Science and Technology Engineering
December 2023 | Monterrey, NL, MX
GPA: 95 / 100

Boston University

Semester exchange CS courses
September 2022 – December 2022 | Boston, MA

RELEVANT COURSES

Fundamentals of Machine Learning

Computational Mathematics for Data Analytics

Foundations of Analytics and Data Visualization

Analysis and Design of Advance Algorithms

Integration of computer security in networks and software systems

Implementation of IoT

Programming of data structures and fundamental algorithms

Software requirements analysis

SKILLS

PROGRAMMING

Languages: C++ | Python | JavaScript | TypeScript | Swift | R | HTML | CSS | MATLAB | C# | SQL

Frameworks: ReactJS | Next.js | Flask | VueJS | React Native | NodeJS

Databases: Firebase | MySQL | MongoDB | PostgreSQL

Tools: Git | Figma | Unity | TensorFlow | AWS | XCode | Illustrator | Affinity Designer

LANGUAGES

Spanish (Native) • English (Fluent) • German (Basic)

PROFESSIONAL EXPERIENCE

DFuture Web Development | Founder and full-stack developer
June 2017 – Present | Monterrey, NL, MX

Oversee and interact with all clients and coordinate multiple meetings to interpret needs and specifications. Draft estimates for clients and utilize Figma for designing web interfaces. Lead site maintenance, build web platforms, and incorporate website updates. Conduct interactive meeting sessions with team members to solve conflicts and manage activities.

Key Accomplishments:

- Planned and developed more than eight complete projects, encompassing e-commerce sites, blogs, landing pages, and web applications by leveraging SCRUM for project management.
- Utilized React and Next.js with Firebase or MongoDB to direct the development of various web applications.

ITESM | Software engineer on-campus job

August 2020 – February 2022 | Monterrey, NL, MX

Prepared in-depth reports pertaining to Covid19 for ITESM authorities by creating data analysis algorithms via R. Evaluated covid19 data and generated comprehensive reports. Updated data analysis algorithms in R, as well as developed and designed websites. Manage overall development activities in team meetings while presenting progress to management.

Key Accomplishments:

- Slashed required time by 90% by creating an administrative site for uploading data to a specific web application.
- Spearheaded the development of a progressive [web application](#) for visualization of all Mexico's Covid19-related data in a dashboard using ReactJS and Firebase.
- Steered a [web application](#) development to visualize the outcomes of Mexico's 2020 elections by utilizing React, Mapbox, and AWS Buckets, becoming the primary source of information in the university.

PROFESSIONAL AND SCHOOL PROJECTS

Web Application for Cluster Analysis

- Conceived and built a [web application](#) dashboard for Cemex using Next.js, Flask, and MongoDB to utilize machine learning models, including BERT and LDA, to cluster a data set and use Flask for API.

News Web Application

- Designed and developed a progressive [web application](#) for a telecommunications company via React, Firebase, and AWS, and successfully allowed 500+ users daily to state up-to-date industry news.
- Successfully alleviated the amount of uploading news time by 30% by customizing the administrative page.

HackMTY

- Actively contributed to developing LSTM and Random Forest Machine Learning algorithms for predicting Mexico's consumer price index via Python and libraries, entailing Pandas, NumPy, Scikit-learn, and TensorFlow in close collaboration with three team members in HackMTY