

Sebastian Rodriguez

Front-End Software Engineer and aspiring Cross Platform Mobile
Developer focused on overall user experience

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EDUCATION

Bachelors in Computer Science and Technology • Tecnologico de Monterrey • 2019 – 2023 • GPA: 95/100

Courses: Data Structures & Algorithms, Full-stack Web Development, and Artificial Intelligence.

EXPERIENCE

Umbrage • Associate/Crafter (Full-stack Software Engineer)

Jun 2022 — Present (2 years)

- Collaborate across departments to develop innovative services, tools, and data structures that enhance our workflow efficiency on a large scale.
- Work closely with clients to gather requirements and propose innovative features that are aligned with their needs and goals.
- Implemented intricate data models within the application's database, enhancing the platform's scalability and flexibility.
- Engineered secure and high-performing endpoints for efficient data interaction, ensuring smooth user experiences.
- Consistently delivering quality results and collaborating on multiple web3 app projects in various stages of development.
- Utilized a versatile tech stack including Nest, React, Node, Docker, AWS, SES, and other tools to effectively create and deploy software solutions meeting project requirements and industry standards.

Menleo • Jr. Software Developer (Freelancer)

Jun 2021 — Jun 2022 (1 year)

- Engage in product evaluations and team discussions, offering technical expertise. Assist in defining project scopes, estimating efforts, and prioritizing tasks amidst competing demands.
- Led the development of a mobile application as a Software Developer, achieving an MVP within 3 months.
- Collaborated with the team to create database models, design API endpoints, and develop React Native components for seamless integration.
- Consistently met and exceeded client requirements through proactive measures, including regular feedback solicitation, feature demonstrations, and progress tracking using tools like Jira.
- Utilized a diverse tech stack, including Nest, React Native, NX, MongoDB, and Docker, to design, develop, and deploy efficient software solutions that met project requirements.

PROJECTS

Machine Learning Movie Review Sentiment Analysis

- Developed a sentiment analysis machine learning model for movie reviews using a public IMDb database of 50,000 reviews.
- Created on Figma a proposal of an app implementing sentiment analysis to give users more in-depth reviews regarding specific movies.
- Trained model to predict sentiment based on user reviews by cleaning, parsing, and tokenizing the text data with the assistance of Pandas and Scikit-learn libraries.

NLP Chatbot

- Created a fronted map view interface with React to display nearby locations considering the user's input as context.
- Developed a Natural Language Processing chatbot using React and Python, proficient in precise attribute extraction and intention classification.
- Notably, the chatbot demonstrates the unique capability to extract and process text fields to map locations on a map, providing customized directions for users, enhancing the overall user experience.

Internal Web Forum

- Teamed up to give a facelift to a web forum, making it more user-friendly and enjoyable.
- Led the charge in building the cool, user-friendly part of the forum using React and got it up and running on AWS S3. Meanwhile, we locked down the back-end using NodeJS, ExpressJS, JWT, and Sequelize for security, with plenty of testing to make sure everything ran smoothly.

SKILLS

Programming Languages: JavaScript, TypeScript, HTML, CSS, C/C++, Python, Dart, Haskell, SQL

Libraries & Frameworks: Node, React, NextJS, Express, Axios, Flutter, DAML, GraphQL, Tailwind

Tools & Platforms: Git, Github, Postman, PostgreSQL, MongoDB, Firebase, AWS, Docker, Figma, Vercel, Netlify

LEADERSHIP EXPERIENCE

AIESEC | Feb 2020 - Feb 2022

- NGO where I led the marketing team through research of tendencies, creation of publicity content, and implementation of campaigns resulting in a 50% increase of donations/awareness.

Reforestation | Mar 2018

- *Managed documentation of 32 students to validate social service requirements.*
- *Led 50+ volunteers and planted over 50 trees resulting in a better environment within the community.*

School Wall Paint | Sep 2018

- *Visited elementary school and painted 4 different murals and 4 other floor games to promote a creative, positivity, and exciting environment.*

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[sebastianrdz-2024.vercel.app](#)

Experience

Umbrage • Associate Crafter & Crafter (Full-Stack Software Engineer)

June 2022 – Present (2 years)

- **Financial Web Application for House Acquisitions:** Led the frontend development using React and Node. Engaged in extensive client discussions to determine best approaches considering timing and budget constraints. Implemented complex UI components, ensuring real-time updates and seamless user interactions. Facilitated exchanges upwards of \$50 million USD in the housing market.
- **Umbrage Website:** Delivered a polished and user-friendly interface using React and Node. Improved website speeds by 20% and increased SEO by about 50% through effective organization of client and server-side components.
- **Blockchain-Based Life Insurance App:** Improved and updated features of a life insurance app built with DAML and Haskell; partnered with clients to meet business requirements, resulting in a 25% increase in user satisfaction and reliability
- **Collaboration and Communication:** Promoted team collaboration through open sessions and technical discussions. Engaged with clients to gather requirements and provide technical insights, balancing project scope, timing, and budget. Utilized tools like Slack, Zoom, GitHub, and Jira for effective communication and project management. Increased project delivery speed by 50%, from 44 to 72 story points.
- **Technological Proficiency:** Gained expertise in TypeScript, React, Node, DAML, and Haskell. Leveraged tools such as Postman, PostgreSQL, MongoDB, Docker, Jira, and GitHub to develop and test full-stack projects.
- **Recognition and Achievements:** Earned client recognition for exceptional frontend development and financial web application setup; implemented automation scripts that streamlined development and testing, boosting team efficiency by 40% and reducing errors by 30%

Projects

Movie Review Sentiment Analysis

- Developed a machine learning model using Python, Pandas, and Scikit-learn to analyze sentiment in IMDb movie reviews.
- Cleaned, parsed, and tokenized text data, reducing preprocessing time by 30%.
- Achieved a sentiment prediction accuracy of 85%, demonstrating proficiency in data preprocessing and machine learning algorithms.
- Processed over 50,000 reviews, ensuring a robust dataset for model training.

NLP Chatbot

- Built a Natural Language Processing chatbot using React, Python, and NLP libraries, capable of attribute extraction and intention classification.
- Defined sophisticated algorithms to process and interpret user inputs with 90% accuracy.
- Integrated the chatbot into a web application and enhanced user experience by providing accurate and context-aware responses, improving response relevance by 40%.

Internal Web Forum

- Led the frontend development of a web forum using React, NodeJS, ExpressJS, JWT, and Sequelize, improving user interface and experience.
- Deployed the application on AWS S3, ensuring 99.9% uptime and reliable, scalable hosting.
- Secured the backend using NodeJS, ExpressJS, JWT, and Sequelize, enhancing data security and reducing vulnerabilities by 25%.
- Conducted comprehensive testing, reducing bugs by 50% and ensuring smooth functionality.

Full list of projects at: [sebastianrdz-2024.vercel.app](#)

Education

Bachelors in Computer Science and Technology at Tecnologico de Monterrey (2023)

Skills

Programming Languages: JavaScript, TypeScript, HTML, CSS, C/C++, Python, Dart, Haskell, SQL

Libraries & Frameworks: Node, React, NextJS, Express, Axios, Flutter, DAML, GraphQL, Tailwind

Tools & Platforms: Git, GitHub, Postman, PostgreSQL, MongoDB, Firebase, AWS, Docker, Figma, Vercel, Netlify

Leadership Experience

AIIESEC

- Led a marketing team, increasing donations and awareness by 50% through targeted research, content creation, and campaign implementation.
- Demonstrated strong team management, communication, teamwork, and strategic planning skills.

Reforestation

- Managed documentation for 32 students to meet social service requirements.
- Coordinated 50+ volunteers to plant over 50 trees, enhancing community environmental health.
- Showcased project management, leadership, organization, and community engagement abilities.