

# Julen Hoppenstedt Mandiola

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## PROJECTS & OUTSIDE EXPERIENCE

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- Volunteer Full-Stack Dev at Proyecto 99** | *React.js, Node.js, MongoDB* December 2023 – February 2024
- Contributed as a volunteer at Proyecto 99, developing a management system to streamline student and teacher registrations and class scheduling for enhanced educational access in underserved communities.
  - Led frontend improvements with React, designing over 15 dynamic components to significantly enhance application responsiveness and user engagement.
  - Improved backend functionality and stability using Node.js, fixing over 20 bugs and introducing new features, while integrating MongoDB for efficient data management.
  - Fostered a collaborative environment using Git and GitHub within a 7-member team, employing Agile methodologies to accelerate workflow, facilitate quick adaptation, and ensure prompt project updates.
  - Quickly learned React and Node.js in under 3 weeks and adapted to Agile, boosting project success and full-stack development skills.
- Advanced Plant Care Automation System** | *Node.js, C++, SQL, Circuits* October 2023 – December 2023
- Engineered an automation system with environmental sensors, utilizing C++ for an automatic irrigation system activated by real-time data, enhancing plant care and environmental monitoring.
  - Established a SQL database to store and analyze data from 5 sensors, supporting precise plant care and irrigation.
  - Developed a Node.js API for real-time sensor data transmission to streamline the irrigation system's operation.
  - Created a real-time dashboard for sensor data visualization, optimizing plant health monitoring and irrigation system efficiency.
- Financial Data Analysis & Linear Regression** | *Python, Pandas, Sklearn* December 2022 – February 2023
- Leveraged Pandas for efficient extraction and cleansing of financial data from Excel, guaranteeing data integrity for advanced analysis.
  - Analyzed personal financial data to identify critical patterns, using Python with Pandas, Numpy, and Sklearn for detailed data manipulation and exploration.
  - Implemented a linear regression model with Sklearn to forecast financial outcomes, shedding light on spending habits and potential influences.
  - Created detailed visualizations with Matplotlib and Jupyter Notebook to display financial trends, aiding in the improvement of fiscal management practices.

## PROFESSIONAL EXPERIENCE

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- Produce Clerk** February 2022 – June 2022  
*Choices Market* *Vancouver, BC, Canada*
- Adapted inventory levels and organization to store standards amid varying product arrivals, seasons, and promotions, utilizing adaptability and efficient time management.
  - Ensured product quality and sustainability, focusing on meticulous attention to detail by removing unsuitable items and applying specific rejuvenation strategies, such as refreshing produce in water.
  - Delivered exceptional customer service by addressing inquiries and sharing knowledge, building customer satisfaction and loyalty through effective communication and approachability.
  - Led and collaborated with the team to foster a supportive and efficient environment, enhancing operations and the customer shopping experience through leadership and teamwork.

## SKILLS

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**Software Development Skills:** C++, JavaScript, Python, C#, Node.js, HTML, CSS, MySQL, MongoDB  
**Tools, Frameworks & Libraries:** Git, PostMan, React.js, Express, Pandas, Numpy, scikit-learn, Unity, Linux  
**Engineering Principles & Practices:** Agile, Scrum, Object-Oriented, Data-Structures, Algorithms  
**Soft Skills:** Continuous Learning, Problem Solving, Leadership, Teamwork, Communication, Adaptability, Creativity

## EDUCATION

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**Tecnológico de Monterrey (ITESM)** Monterrey, México  
*Computer Science Engineering* August 2022 – June 2026

**ILAC International College** Vancouver, Canada  
*Diploma, Services Essentials for Business* August 2021 – June 2022