



JUAN ARANGO

FULL STACK DEVELOPER AND
MECHATRONIC ENGINEER

PROFILE INFO

As a forward-thinking Mechatronic Engineer and software developer, I offer a unique skill set encompassing both hardware and software design, complemented by a fervor for AI development. My collaborative approach has yielded inventive breakthroughs in computer vision, robotics, and network protocols. Proficiency in Flutter, Laravel, and React for cross-platform applications showcases my knack for crafting user-friendly, efficient software within a team dynamic. I possess robust leadership, adaptability, and problem-solving capabilities, facilitating effective communication and collaboration with diverse individuals.



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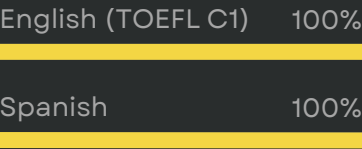
Address
KR 68B #23B-50, Bogota - CO

MY SKILLS

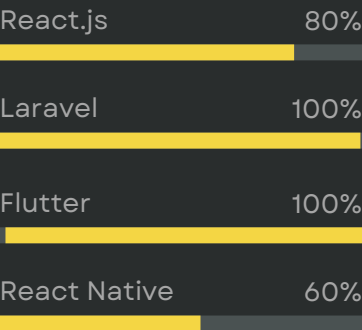
PERSONAL SKILLS

- AI and Machine learning development
- Web Development
- Mobile development
- Software Development
- Robotic design
- CAD design
- Computer vision
- IT engineering
- Computer Vision
- Game development
- Automation design

LANGUAGE SKILLS



PROGRAMMING SKILLS



WORK EXPERIENCE

JAN 2023
NOV 2023

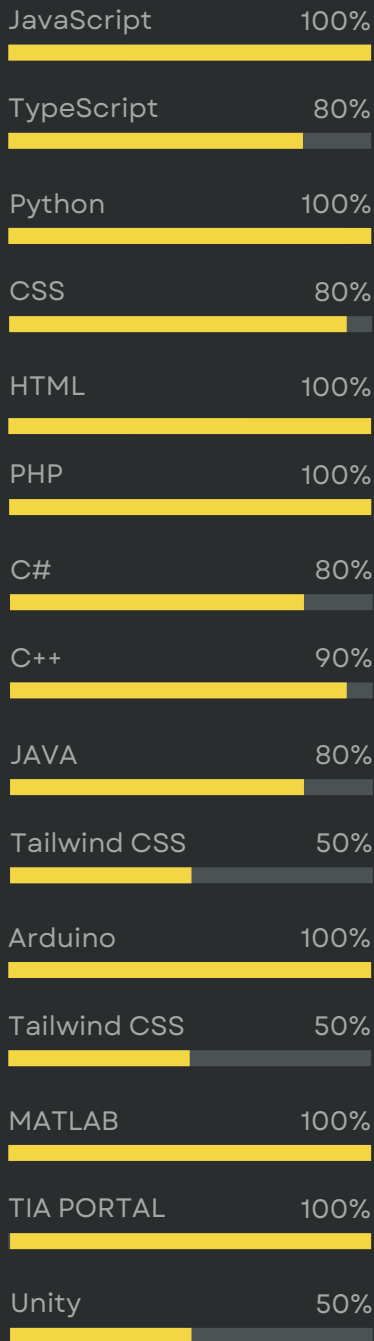
SEP 2023 - NOV 2023
3 MONTHS
TECH AI SOLUTIONS
SL

FREELANCE SOFTWARE ENGINEER

PROJECT: DAY OFF

- Web Developer: React.js with Vite.js, Tailwind.css
- Fullstack Application Developer: Flutter.
- Backend: Python API and Machine Learning (GPT model) fine tuning.
- DevOps: AWS LightSail & Firebase DB.

Day Off stands out as a sophisticated and finely tuned startup application tailored to address inquiries concerning labor law events, with a primary focus on the Spanish context. It leverages advanced GPT models that underwent meticulous fine-tuning using governmental information, resolutions, and laws. This automated application actively tracks employee activities, providing timely suggestions or notifications in the event of workplace-related situations. Day Off thrives on its commitment to customization and delivering prompt, tailored responses.



MORE ABOUT ME

As a technology enthusiast with a great passion for innovation, I am dedicated to utilizing cutting-edge technology to tackle real-world problems efficiently and creatively. My interests revolve around the fields of Robotics, AI and Machine Learning, and I'm also proficient in Full Stack Software Development across multiple programming languages.

AUG 2023 - NOV 2023
4 MONTHS

HHAND.TECH

PROJECT: HELPING HAND

- Web Developer: Laravel.
- Backend: PHP & Strapi.js.
- DevOps: AWS EC2 & Hostinger.
- UX/UI designer.

HelpingHand is a startup project born from the idea of sharing the business formation process with small and new entrepreneurs. The application serves as a CMS with multiple account types: Content managers, users, and clients. It is completely interactive and user-friendly, featuring a robust implementation of data analytics and automatic report generation. Developed from scratch for a seamless experience.

JUN 2023 - OCT 2023
5 MONTHS

MIAMI SIGNATURE
DESIGN

PROJECT: FACTORY TV

- Fullstack Application developer: Flutter for TV, IOS & Android .
- Backend: Node.js.
- DevOps: Plesk.

Application created in Flutter and deployed on TV, iOS, and Android. It was developed entirely using a single supply, an API for movie and series entertainment services, as well as IP channels. The application is a new streaming service similar to Netflix.

MAY 2023 - JUN 2023
2 MONTHS

MIAMI SIGNATURE
DESIGN

PROJECT: PROJECT TRADING

- Fullstack Application Developer: Flutter.
- Backend: Node.js, Strapi.js & Google Services.
- DevOps: AWS LightSail,.

Backend development and frontend fine-tuning for a Flutter application focused on geolocation and order tracking. The application caters to three user types, including managers, and incorporates a robust system to ensure exports and compliance with established guidelines and plans. The ultimate goal is to effectively track orders made by businesses or individuals.

Collaboration and teamwork are integral to my work philosophy, and I thrive on learning from and sharing knowledge with others. With an open mind and a willingness to learn, I approach every project with a deep commitment to delivering outstanding results.

Ultimately, my passion for cross-cultural communication and language learning allows me to build strong relationships and create effective solutions that cater to people from diverse backgrounds and perspectives.

ADDITIONAL COURSES

- Udemy: Neil Commings - Complete guide to building an app with .Net Core and React
- Udemy: Hector Costa Guzman - Python master course from zero to experienced programmer
- Udemy: Harsha Vardhan - Complete react | eCommerce | Hooks | Redux
- Udemy: Online Japanese language school - Online Japanese N5 course
- Udemy: Marina Marina - Russian course for spanish speakers "Matryoshka 1

FEB 2023 - APR 2023
3 MONTHS

ESLOOGAN

PROJECT: DELIVERYGOO

- Fullstack Web Developer: Flutter & Laravel.
- Fullstack Application Developer: Flutter IOS & Android.
- Backend: Laravel API, PHP & MYSQL.
- DevOps: Plesk.

Full-stack development on the DeliveryGoo website (<https://deliveryenpueblos.es>). Implemented corrections and modular additions to the delivery system, building an API through Laravel in the process. The main focus and development of this project lie in its three mobile applications created using Flutter, for which multiple modules and new features were developed as part of updates.

MAR 2023
1 MONTHS

ESLOOGAN

PROJECT: RUBI5.COM

- Fullstack Web Developer: WordPress.
- Backend: PHP.

Plugin development for allowing product preview for client and bulk imports of data to the WordPress DB.

JAN 2023 - MAR 2023
3 MONTHS

ESLOOGAN

PROJECT: DETALLEPROMOCIONAL

- Fullstack Web Developer: Wordpress.
- Backend: PHP.

Wordpress plugin development for product management, order process and data acces

DEC 2022
FEB 2023
3 MONTHS

**ALPHA DIGITAL
DENTISTRY**

DIGITAL DENTISTRY ASSISTANT & SUPPLY ENGINEER

- Leveraged cutting-edge technologies, including milling devices, 3D printers, and scanning tools, to design and produce custom dental implants such as screw-retained and anatomic-retained crowns, wax-ups, nightguards, and more.
- Maintained a keen attention to detail, ensuring the integrity of each restoration by taking responsibility for the design and massive supply of custom product shipping materials.
- Collaborated closely with dentists and other healthcare professionals to ensure that each patient received the best possible outcome and highest level of care.
- Stayed up-to-date with the latest trends and best practices in digital dentistry to continuously improve the quality and precision of each dental implant.

APR 2022
MAY 2022
2 MONTHS

**VERTCLAIR
S.A.S**

FREELANCE WEB DESIGNER

- Full website design with WIX CMS of <https://www.vc-sas.com>, showcasing the company's brand and services to customers through a professional and visually appealing interface.

MAY 2021
DEC 2022
1 YR 8 MONTHS

**ADVANCE
TECHNOLOGY
GROUP**

APPLICATION TECHNICAL SUPPORT

- Provided top-tier technical support to clients, specializing in complex problem-solving related to VPN and SQL database issues.
- Created detailed case reports and updated manuals to improve the efficiency and effectiveness of the Technical Support team.
- Analyzed technical data to identify patterns and improve company software, actively contributing to the development of future updates.
- Proactively followed up on resolved cases to verify that proposed solutions were effective and meet client needs.
- Helped as trainee develop in specialized projects of software development.
- Facilitated the onboarding and training of new team members to ensure they were equipped to handle technical support inquiries.

MY EDUCATION

FEB 2019
ON GOING
BOGOTA ON SITE

**BACHELOR'S DEGREE IN
MECHATRONIC ENGINEERING AT
NUEVA GRANADA UNIVERSITY**

Specialized coursework in Robotic Design, Web Development, Computer Vision, and Control Systems.

ACHIEVEMENTS & SKILLS:

- Proficient in web development, with experience in both frontend and backend technologies.
- Proficient in CAD design software

- Proficient in Robotics Design, with experience in designing and building 2 and 3 DOF Scara Robots and a 3 DOF Antropomorphic Robot. Successfully integrated user interfaces for both robots, capable of calculating and simulating Direct, Inverse, Differential Kinematics, and trajectory planning.
- Also proficient in Mobile Robot remote control and restrictive path planning.
- Skilled in web development frontend/backend with a strong understanding of Computer Vision. Successfully developed a program for center of mass recognition through images, and for speed and acceleration monitoring from videos.
- Knowledgeable in Adaptive Control Design and classical control design, Communication Architecture and protocols.
- Achieved RCNN for object recognition, Genetical AI for trajectory planning and SVM for flower species recognition.
- Replicated a full working beer factory and automated drawing with antropomorphic robot.

NOV 2018
BOGOTA ON SITE

HIGH SCHOOL DIPLOMA AT MGCA AMERICAN SCHOOL

- Graduated with advanced english level