Guillermo Martínez

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Software Developer with over 3 years of experience, being part of high-performance teams at Necodex. I participated in the development of scalable web and mobile applications, used by over 100,000 concurrent users. Focused on delivering high-quality, high-performance products, contributing to a 40% improvement in delivery efficiency.

PROFESSIONAL EXPERIENCE

Necodex   **Hermosillo, Sonora, Mexico**
Fullstack Developer   *January 2024 – Present*

- Developed and maintained scalable full-stack applications using modern technologies such as Next.js, Docker, and AWS cloud infrastructure services (EC2, S3, RDS), ensuring a robust, modular, and maintainable architecture that supported thousands of concurrent users without performance loss.
- Automated complex backend processes using Python by designing scripts and asynchronous services for data processing, validations, and internal flow control, which significantly reduced system response times and improved operational efficiency by 40%.
- Actively participated in the entire software development lifecycle, from requirements gathering to production deployment, integrating solutions with SQL (PostgreSQL, MySQL) and NoSQL (MongoDB) databases to optimize data storage, scalability, and security.
- Collaborated with UI/UX teams to enhance user experience by translating designs into responsive and accessible interfaces using TailwindCSS, Figma, and custom components, resulting in a more intuitive interface and a 25% reduction in user-reported navigation errors.
- Developed and implemented artificial intelligence solutions for voice transcription, processing audio files from scratch using preprocessing techniques, feature extraction, and speech recognition models. Performed speaker segmentation and identification using custom algorithms, enabling the automation of complex manual processes and improving operational efficiency by 30% in critical client workflows.

Necodex   **Hermosillo, Sonora, Mexico**
Intern   *March 2023 – December 2023*

- *Developed and maintained web and mobile solutions using React.js, applying principles of responsive design, component reuse, and hook-based architecture. Implemented version control with Git in collaborative environments, and applied coding best practices to ensure code scalability and maintainability. These efforts contributed to delivering smooth, accessible, and high-quality user experiences across multiple devices.*

EDUCATION

Instituto Tecnologico de Hermosillo   **Hermosillo, Sonora, Mexico**
Bachelor's Degree in Computer Systems Engineering   *August 2019 - December 2023*
Honors: Academic Excellence Award and Final Year Project (FYP)

ADDITIONAL SKILLS

- **Languages:** Spanish (native), English (conversational).
- **Programming Languages:** C++, Java, Python, HTML, CSS, Javascript, Typescript, SQL.

- **Frameworks / Libraries:** ReactJS, NodeJS, NextJS, FastAPI, ExpressJS, Tailwind CSS, ThreeJS, DJango, Spring Boot, Framer, React Native, Expo.
- **ML / Data:** TensorFlow, PyTorch, Machine Learning, Deep Learning, Neural Networks, Pandas, Data Visualization.
- **Cloud / DevOps:** AWS, Docker, Firebase, Google Cloud, Netlify, Vercel.
- **Databases:** MySQL, PostgreSQL, MongoDB, SQLite, Sequelize, Redis, Prisma.
- **Concepts:** System Design, Data Structures and Algorithms, API Design, Microservices, Security, Figma.