Sebastián Nava López

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Education

Bachelor's Degree in Computer Systems Engineering   Aug 2017 - Aug 2022
Instituto Politécnico Nacional - Escuela Superior de Cómputo
Associate's Degree in Computer Programming   Aug 2013 - Dec 2016
Instituto Politécnico Nacional - Centro de Estudios Científicos y Tecnológicos Núm. 9 'Juan de Dios Bátiz'

Experience

Intern   Mar 2022 - Oct 2022
Centro de Investigación y de Estudios Avanzados (CINVESTAV-IPN)

Worked as social service intern in a federally-funded research project focused on COVID-19 contact tracing. Main activities:
- Gave support to the Android application and developed new features to enhance data collection.
- Design and development of a new web application intended to share test data with other team members.
- Management and deployment of multiple web services used for application testing.
- Maintenance and bug-fixing on the back-end and Android codebases.

Projects

RISCV-V processor implementation using VHDL   Sep 2022 - present

RISC-V processor implementation designed around the RV32I set of instructions using VHDL and implemented in a Basys 3 development board (Xilinx Artix-7). Started while working at CINVESTAV-IPN, now as a personal project
Technology stack: VHDL, Vivado, GHDL

Remote Plant Monitoring System Prototype   Jan 2021 - Jan 2022

System prototype designed to provide warnings and suggestions on plant care using a dedicated hardware device,a web service and a mobile application
Technology stack: Java, Javascript, C/C++, NodeJS, PostgreSQL, ESP32-DevKit, Android

Spacelab   Jan 2016 - July 2016

Educational system intended to help physics teaching for high school students
Technology stack: Java, Spring, AngularJS, MariaDB

Languages

Spanish Native
English Intermediate, B1(CEFR)

Skills

Programming languages: Java, Python, Javascript, C/C++, Rust, VHDL
Technologies: Spring, Android, git, bash, NodeJS, ReactJS, HTML, CSS
Others: Vim, Linux, LaTeX, IntelliJ IDEA, Vivado

Soft skills

Team player, problem solver, eager to learn.