DAVID NOGUERA

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EDUCATION

University of Florida | Herbert Wertheim College of Engineering   **August 2021-May 2025**
- Bachelor of Science, Major in Computer Science | *Cum Laude*

EXPERIENCE

App Web Developer (Full-Stack, Contract)   **March 2025-September 2025**
University of Florida, Department of Health Disparities | Gainesville, FL
- Modernized a public-facing health research platform serving 100+ daily healthcare queries, leveraging Gatsby, Node.js, Express, and MongoDB to deliver scalable functionality connecting citizens with comprehensive healthcare resources.
- Built an AI-powered health assistant with Python LangChain, UF HiPerGator NLP models, and FAISS semantic search, enabling conversational healthcare support through custom embedding classes and vector databases.
- Developed admin infrastructure featuring React dashboards, content moderation workflows, community forums, and Google Analytics 4 integration.

Undergraduate Research Assistant   **August 2023-May 2025**
University of Florida, Computer & Information Science & Engineering | Gainesville, FL
- Created an AI-powered technical interview using Next.js, TypeScript, PostgreSQL, and Prisma, streamlining recruiter workflows by automating test generation and grading, reducing manual assessment time by an estimated 75% for recruiters.
- Leveraged Claude to dynamically generate customized technical assessments and evaluate candidate code submissions, providing unbiased feedback based on predetermined grading scales.
- Set up an AWS infrastructure using EC2 instances for secure coding terminals, S3 storage for candidate submissions, and Docker containers, enabling instant candidate evaluation versus traditional 2-day turnaround.

Software Engineer Intern   **August 2024-December 2024**
Onward Development | Gainesville, FL
- Built a full-stack food truck marketplace using Ruby on Rails 7, PostgreSQL, and Bootstrap, connecting vendors with event organizers through geospatial search and a Pundit based multi-role authorization system.
- Engineered real-time communication with Action Cable WebSockets for instant messaging, Stripe payment integration, and a credit-based application system, enabling faster event coordination workflows.

Web Developer Intern   **January 2024-May 2024**
University of Florida, Active Learning Program | Gainesville, FL
- Produced a WordPress advocacy platform for Housing Assembly of South Africa to collect resident data on living conditions, income, and housing insecurity, supporting research addressing displacement affecting 450,000+ working-class households in Cape Town.
- Integrated form submission and notification features using WordPress capabilities, enabling automatic collection of responses and follow-up via email/social-media contacts.

PROJECTS

FoodCraft | *Angular, Go, MongoDB*
- Built a full-stack Minecraft-themed food recipe platform with Angular and Go, helping users discover, save, and customize recipes through a crafting-style interface.
- Implemented secure JWT authentication and user accounts that allow saving, editing, and deleting favorite recipes, adding custom ingredients, and generating personalized recipe recommendation.
- Wrote Cypress E2E tests to ensure data integrity and the correct functionality across key user flows.

Car Proximity Sensor | *C++, Arduino*
- Programmed an Arduino-based microcontroller system with HC-SR04 ultrasonic sensors to detect obstacle distance and relay feedback via LEDs and piezo buzzer alarms.
- Prioritized real-time distance calculation and visual/audio warnings mapped to urgency levels.

PiDroneUI | *C++, wxWidgets, Raspberry Pi*
- Created an interactive drone simulator with real-time telemetry visualization, showing position, velocity, and orientation on a 2D map using wxWidgets.
- Developed the back-end data pipeline with TCP sockets to collect and transmit live sensor data from Raspberry Pi hardware, enabling dynamic simulation updates.

TECHNICAL SKILLS

Languages: C, C++, Python, TypeScript, JavaScript, Ruby, SQL, PHP
Frameworks & Libraries: React, Next.js, Angular, Gatsby, Express, Ruby on Rails
Databases: PostgreSQL, MongoDB
Cloud & Platforms: AWS (EC2, S3), Docker, Firebase, Vercel, Raspberry Pi
Other: Git, Socket Programming (TCP/WebSockets), Jira, Linear, Node.js