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EDUCATION

•Purdue University

Doctor of Philosophy - Electrical and Computer Engineering
Undergraduate Visiting Scholar - Electrical and Computer Engineering

West Lafayette, IN
August 2025 - Present
February 2023 - July 2023

•Universidad Nacional de Colombia

Bachelor of Science - Systems and Computer Engineering

Bogotá DC, Colombia
January 2018 - October 2023

EXPERIENCE

•Purdue University

Research Assistant

Bogotá DC, Colombia
August 2025 - Present

•Kravata SAS

Test engineer & QA Analyst

Bogotá DC, Colombia
September 2024 - August 2025

- Automated testing systems, integrating them into CI pipelines for streamlined deployments.
- Led QA for a cryptographic project, ensuring high security and quality standards.
- Enhanced testing scalability and reliability, supporting faster and secure releases.

•Fit Ideas SAS

Semi-senior Fullstack software developer
Junior Fullstack software developer

Bogotá DC, Colombia
August 2023 - September 2024
August 2021 - January 2023

- Led and managed a high-performing development team
- Implemented end-to-end systems with seamless integration of DevOps practices
- Automated data collection using web scraping techniques

•Kanazu SAS

Fullstack software developer

Bogotá DC, Colombia
February 2021 - July 2021

- Developed RESTful APIs to enable integration with services across the organization.
- Designed and implemented web catalogs tailored to the specific needs of clients.

RESEARCH EXPERIENCE

•Systematically Detecting Packet Validation Vulnerabilities in Embedded Network Stacks

2023

Undergraduate Visiting Research - Purdue University

- Participated on the development and integration of a framework to systematically detect vulnerabilities in Embedded Network Stacks
- Performed Empirical study to Vulnerability Data set

PROJECTS

•Fidelity - Alvic

2023 - 2024

Gas station loyalty management information system

- Tools & technologies used: Javascript/Nest.js, Dart/Flutter
- Designed and developed a mobile application (ios/android) with integrations into on-premise services

•Midas - Scotiabank Colpatria

2022 - 2023

Credit and payment management information system

- Tools & technologies used: Java/Spring boot, TypeScript/React, Jenkins
- Designed, developed, and deployed a high-performance web application using DevOps on a private environment

•Experian - Web Crawler

2021 - 2023

Automated online public data collection leveraging web scraping techniques

- Tools & technologies used: Python/Django, Celery, Redis, Docker, Selenium
- Developed and deployed a cloud-based project management web application using DevOps methodologies on AWS

TECHNICAL SKILLS AND INTERESTS

Languages: Spanish (Native), English (C1)

Programming: Java, C/C++, Python, Dart, TypeScript/JavaScript, C#, MatLab

Developer Tools: Docker, Git, Jenkins

Frameworks: Spring boot, Django, Flutter, ReactJS, VueJS, CUDA, MPI, Arduino

Cloud/Databases: Google Cloud Computing, Amazon Web Services, PostgreSQL, MongoDB

Soft Skills: Leadership, Discipline, Teamwork, Resilience, Working Under Pressure

Coursework: Operating Systems, Parallel and distributed computing, Cryptography and Information Security, Software Engineering, Software Architecture, Programming languages

Areas of Interest: Internet of Things (IoT), Cybersecurity, Operating Systems, Software Architecture

CERTIFICATIONS

•Ayuda y Aprende - Spanish Service Learning <i>Purdue University</i>	<i>April 2023</i>
•Algorithmic Toolbox <i>University of California San Diego (Coursera)</i>	<i>April 2021</i>
•Advanced course on Django <i>Platzi</i>	<i>October 2021</i>
•Data Analysis with Python <i>Cognitive Class</i>	<i>April 2021</i>
•Data visualization with Python <i>Cognitive Class</i>	<i>April 2021</i>
•Introduction to Git and GitHub <i>Google (Coursera)</i>	<i>August 2020</i>
•Crash course on Python <i>Google (Coursera)</i>	<i>August 2020</i>