

Christofer Piedra

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EDUCATION

Bachelor of Science, Computer Science, Florida Atlantic University

December 2025

Minor: Artificial Intelligence

Relevant Coursework: Data Structures & Algorithms, Artificial Intelligence, Machine Learning, Data Mining, Advanced Algorithms, Computer Operating Systems, Computer Networks, Software Engineering, Stochastic Models, Software Engineering

Bachelor of Business Administration, Management, Florida Atlantic University

December 2025

SKILLS

Languages: Python, SQL, Java, JavaScript (ES6+), C++, C, HTML5, CSS3

Frameworks & Tools: React, Node.js, Express.js, Pandas, NumPy, Seaborn, Matplotlib, TensorFlow, Scikit-learn, Linux/Unix, Docker, Git, GitHub Actions (CI/CD), Firebase, Intrusion Detection Systems (Zeek), Terraform, AWS (SageMaker, ECS), InfluxDB, Jupyter, Apache Kafka, Kubernetes, REST APIs, .NET(C#)

Data Science & Analytics: Machine Learning (XGBoost, SVM, LDA), Data Visualization, Automation Scripts, Feature Engineering, KPI Modeling, Data Cleaning, Web APIs, Statistical Analysis, Version Control

DevOps & Infrastructure: CI/CD pipelines, Docker Containers, Kubernetes orchestration, Git-based version control, infrastructure as code (Terraform), service layer design, automated testing, performance profiling

EXPERIENCE

College of Engineering & Computer Science, FAU

Graduate Teaching Assistant – Master's Level Internet of Things Course

August 2024 – Present

- Led curriculum & projects focused on network traffic analysis using Python, Wireshark, Zeek, & TensorFlow.
- Supported over 300 students through project-based learning environments involving Linux servers & secure data pipelines.

Tecore Research Lab, FAU

Undergraduate Research Fellow

May 2024 – July 2024

- Built & deployed a full-stack testbed for traffic monitoring & threat detection using Zeek, Docker, & InfluxDB.
- Secured ongoing research funding by presenting results to Department of Defense representatives.

College of Engineering & Computer Science, FAU

Engineering Lab Assistant

January 2023 – July 2024

- Maintained embedded systems & electronics equipment; provided technical support to engineering courses.
- Produced & distributed lab kits using 3D printing, soldering, & fabrication tools.
- Automated lab inventory tracking & provided support for data instrumentation systems across multiple engineering departments.

Tecore Research Lab, FAU

Engineering Lab Assistant

August 2022 – August 2023

- Conducted research funded by the Department of Defense, focusing on cryptography, wireless sensor networking, mobile computing, and networking.
- Focused on developing advanced secure communication within network environments through analyzing research.

Projects

AI Word Pattern Solver

Python · Pandas · Entropy Modeling · Matplotlib · Seaborn · Git

April 2024 – Present

- Developed an AI-based Wordle solver using entropy-based decision-making & constraint satisfaction techniques to maximize guess accuracy.
- Processed word list data using Pandas & visualized solver performance using Matplotlib & Seaborn.
- Implemented automated test harnesses & tracked performance across multiple iterations using Git.

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Network Security Testbed with Detection & Dashboard

Python · Intrusion Detection System · InfluxDB · React · Linux

May 2024 – Present

- Designed & deployed a modular, containerized testbed to detect ARP poisoning, DDoS, & port scan attacks using Zeek.
- Built a Python-based data pipeline to stream network traffic insights into an InfluxDB dashboard, enabling real-time visualization & anomaly detection.
- Integrated secure student access; implemented CI/CD principles for streamlined testing & deployment.
- Presented findings to Department of Defense personnel, leading to continued research support & funding.

FlightPath – Career Planning Web App

React · Node.js · Firebase · JavaScript · Firestore · GitHub Actions · UX Design

April 2024 – Present

- Developed React application that guides students through career development with community & job forums, skill importing.

- Built scalable service layer via Cloud Functions & Firestore to manage user data & authentication.

- Created CI/CD pipelines with GitHub Actions for automated build, testing, & deployment.

Optimized application performance with lazy loading & modular rendering, reduced load times by over 50%.

Awards & Recognition

Summer Undergraduate Research Fellowship (SURF)

Florida Atlantic University – Summer 2024

Awarded competitive fellowship to conduct cybersecurity research under Dr. Imad Mahgoub, focusing on network intrusion detection using Zeek.