Nicholas R. Pucci

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Education:

The University of Alabama | *Bachelor of Science in Computer Science* | Tuscaloosa, AL | Fall 2025
Minor in Mathematics | GPA: 3.6 / 4.0 | Dean's List: Fall 2024, Spring 2024, Spring 2022

Technical Skills:

C++, C, Python, SQL, Docker, Git/Github, Linux, Windows, Jenkins CI/CD, C#, Robot Framework, MATLAB, VIM/NeoVim, Tmux, ASP.NET MVC, Assembly, MongoDB, Oracle SQL Developer, Jupyter Notebook, Groovy, Java, HTML, CSS, Javascript, AzureWebService, Autodesk Maya, Unity, JIRA, Confluence, Microsoft Office (Excel, Word, PowerPoint), UML, SAP, Tableau

Professional Experience

Adtran Inc. Senior Co-op: May 2024 - August 2024 | Huntsville, AL
- Development Team (Software Engineering & Feature Implementation)
- Added new features to Python scripts that allowed for the ability to create mock Optical Network Unit (ONU) IDs on cable software-defined optical line terminals (SDX OLTs) facilitating debugging processes.
- Developed CLI commands and controller functions for the OLT in Adtran-specific C++ packages, helping to identify which ONUs are malfunctioning and ensure stable ONU-to-OLT connections

Adtran Inc. Co-op II: August 2023 - December 2023 | Huntsville, AL
- Systems Team (Hybrid Role, OLT Infrastructure & CI/CD Management)
- Designed and modified Python programs to identify missing traffic flows not being received by ONUs in testing
- Automated test execution utilizing Robot Framework on newer versions of Python scripts in testbed environments consisting of a variety of OLT models
- Created a Jenkins tool to facilitate the testing of git pull requests by automatically verifying and testing changes in the CI pipeline, reducing manual testing cycles, and improving deployment efficiency
- Configured a Raspberry Pi to interface with multiple OLT testbeds, enabling remote management and control of individual or all OLTs simultaneously.

Adtran Inc. Co-op I: January 2023 – May 2023 | Huntsville, AL
- Testing Team (DVT – Design Verification & Testing)
- Worked closely with hardware and software products such as traffic generators, simulated clusters, and Mosaic Cloud Platform (MCP) to solve problems identified by team members and customers through unit testing and iterations
- Wrote tailored Python and C help commands to assist individual customers in navigating Adtran-specific software tools designed for their unique cluster environment of SDX OLTs and aggregate switches.

Projects:

- Assembled and led a team of co-ops to build a 2D Unity game written in C# with an Adtran theme. Features boss fights, power-ups, and different enemy types that track player movement. Submitted for a company-wide hackathon and won 1st place
- Developed a Python script to calculate the joint probability of any given hypothesis query from a Bayesian Network using inference by enumeration, demonstrating data analysis and probabilistic modeling skills.
- Built a web app using Azure, ASP.NET MVC, and ChatGPT API to simulate AI social media comments, performing real-time sentiment analysis using VADER. Developed data-driven organizational skills utilizing an SQL database with dynamic relationships.

Other Experience:

Student Teaching Assistant: August 2024 – December 2024 | *University of Alabama* | Tuscaloosa, AL
- Entrusted by the professor to teach to the Computer Science 201 lab section on the principles of data structures and algorithms; designed PowerPoints with weekly quizzes to accompany
- Assisted students both during and out of office hours who needed more in-depth explanations of concepts or C++ programming assignments

Owner: June 2018 – 2020 | *Nick's Power Washing* | Cumming, GA
- Started a small business that serviced more than 50 commercial and residential customers
- Built relationships with my customers and employees to ensure high-quality and reliable services
- Developed and executed contracts, issued payments to employees, and developed the work schedules
- Managed the business plan through marketing and referrals to grow the business year-after-year

Involvement:

Adtran Hackathon Fall 2023 1st Place | UA Association of Computing Machinery August 2022 – December 2022 | Crimson Defense Cybersecurity Club, August 2022 – December 2022 | Huntsville Green Team Volunteer, April 2023 | Ironman 70.3 finisher, May 2024