

Garrett DiPalma

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Summary of Qualifications

Computer Science Graduate: Specializing in machine learning, advanced programming, and system optimization.

Engineering Expertise: Proven track record in configuring complex systems and performance optimization.

Leadership Excellence: National Eagle Scout recipient with demonstrated leadership and problem-solving skills.

Machine Learning & Programming: Proficient in Python, SQL, and parallelism for innovative solution development.

System Configuration & Optimization: Experienced in Windows Server, VMWare/Virtual Box, and Active Directory administration.

Project Management: Agile and Scrum adept, from project conception to execution.

API Integration & Data Analysis: Skilled in seamless software system integrations with RESTful API's and insightful data analysis.

Technology Enthusiast: Driven by my passion for creating accessible, practical solutions, and interested on contributing to open-source projects that make a real difference.

Technical Skills

Languages: C, C++, C#, Python, Java, JavaScript, PHP, HTML, BASH, CSS, SQL, PowerShell

Other Frameworks & Technologies: Oracle, MySQL, Flask, Jira, BitBucket, Git/GitHub, Linux, Unix, Windows, Visual Studio, IntelliJ, Geany, MySQL Workbench, Pandas, numpy, matplotlib, Windows Server, VMWare, Active Directory, API Integration, Machine Learning, Data Analysis, Optimization

Operational Excellence: Troubleshooting, Quality Assurance, Inventory Management, Database Systems Upgrades.

Leadership & Teamwork: Agile Methodologies, Scrum/Sprint Practices, Team Coordination

Analytical Skills: Performance Metrics Evaluation, Data Visualization

Relevant Experience

IT Assistant

Feb 2023 - Present

Meadows Center, San Marcos, TX

- Configured WeeWX on Intel NUC and Davis Vantage Pro 2; managed Apache and FTP for data backup.
- Improved data accuracy and reporting by 50% using RESTful APIs and developed automation scripts with Python.
- Pioneered machine learning-based platform support, showcasing adeptness in operational tasks and integration troubleshooting.

Computer Technician – AISD Contractor

Aug 2023 - Sep 2023

GTS Technologies, Austin, TX

- Conducted Quality Assurance for various devices, ensuring optimal functionality.
- Upgraded Inventory Management and Database Systems, and adeptly handled network troubleshooting.
- Collaborated effectively with a team to provide technical support to teachers and staff.
- Excelled in virtualization and storage administration, optimizing VMWare environments for enhanced system efficiency.
- Mastered SQL and Python to develop data-driven solutions, significantly improving investment team support through advanced analytics.

Porter

Aug 2019 - Feb 2021

Axis West Campus, Austin, TX

- Demonstrated strong work ethic and self-reliance by maintaining property cleanliness, managing compactors, and addressing maintenance requests while supporting myself through college.
- Conducted pool chemical checks (CPO certified) and repaired appliances and electrical switches, balancing work responsibilities with academic pursuits.
- Developed expertise in reprogramming key fobs and performing general maintenance tasks, and showcasing adaptability and commitment to self-sufficiency during my college years.

Projects

BobcatCLAWS Website

Aug 2023 – Dec 2023

- Led a team in integrating advanced search features by spearheading the BobcatCLAWS website, a college essentials price comparison platform. Managed the project lifecycle, from concept to launch, ensuring alignment with Agile methodologies and Scrum/Sprint practices.
- Led a team in integrating advanced search features, custom database development, and employing various APIs and Python for data collection. Focused on system reliability through effective team coordination and strategic planning.
- Engaged in complex operations research and optimization projects, utilizing Llamasoft and Power BI to drive network efficiency.

Forecasting TDS and Water Temperature Project

Aug 2023 – Present

Meadows Center, San Marcos, TX

- Developed and executed a machine learning project
- Executed a machine learning project to predict TDS and water temperature, using Python and advanced analytics.
- Evaluated model performance and provided insights into model effectiveness.
- Developed and executed a machine learning project to predict TDS and water temperature, using Python and advanced analytics.

Flask Travel Website

Jan 2023 – May 2023

- Developed and launched a dynamic Flask-based travel website
- Integrated APIs like Skyscanner and OpenWeather for enhanced functionality.
- Focused on user experience and responsive design for various devices, integrating APIs like Skyscanner and OpenWeather for enhanced functionality.

CPUvCUDA Performance Project

Jan 2021 – May 2021

- Spearheaded an analytical study on parallelism performance
- Analyzed parallelism performance using OpenMP and CUDA, employing tools like perf and NVIDIA's nsight for in-depth evaluation.
- Demonstrated skills in C, C++, CUDA, and Linux

Education

Texas State University

Dec 2023

Bachelor of Science in Computer Science

San Marcos, TX

Relevant Coursework: Machine Learning, Computer Systems Fundamentals, Data Mining, Database Systems, Data Structures & Algorithms, Object-Oriented Programming, Software Engineering

Austin Community College

May 2019

Associates of Science in Computer Science

Austin, TX

Relevant Coursework: Assembly Language, Programming Fundamentals (I) and (II), Calculus (I) and (II)

Honors & Distinctions

National Eagle Scout

Sep 2015

Demonstrated exceptional leadership, organizational, and problem-solving skills through the completion of a community service project that received national recognition.

Kyle, TX