Brandon Miramontes

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Professional Summary

Solutions Engineer with a solid foundation in data analysis, IT support, and system administration, leveraging years of experience in the industry to enhance organizational security and efficiency. Proficient in machine learning, network troubleshooting, and statistical analysis, with hands-on expertise in Microsoft Intune and Azure Entra ID.

Education

B.S. in Computer Science, Minor in Mathematics   Aug 2022 - May 2025
University of Houston - GPA: 3.0

Experience

Solutions Engineer / Systems Engineer - ThinOps   Mar 2024 - Present

- Enhanced security with EDR deployment and server hardening, boosting threat detection capabilities.
- Transitioned infrastructure to Cisco Meraki, resolving connectivity issues and optimizing network performance.
- Developed compliance policies via Intune and PowerShell, ensuring seamless app deployment and system migration.
- Implemented disaster recovery with SolarWinds SFTP, securing data integrity and uninterrupted operations.

The Data Mine – Purdue University   Aug 2024 - Present

- Collaborated on machine learning solutions to solve real-world problems.
- Analyzed extensive datasets using Python, R, and SQL, uncovering trends and insights.
- Presented research findings to faculty and industry partners.

IT Field Technician - TDR, Medasource/Memorial Hermann   Aug 2024 - Oct 2024

- Provided technical support for Epic system transition across Memorial Hermann hospitals.
- Configured and tested equipment for seamless Epic integration.
- Resolved technical issues using ticketing system, ensuring minimal downtime.

IT Technician - KGMCA, University of Houston   Jan 2023 - Mar 2024

- Delivered first-level IT support, resolving technical issues for faculty, staff, and students.
- Managed hardware maintenance and troubleshooting for optimal performance.
- Implemented security patches and software deployments using Jamf Pro and SCCM.

Skills

- **Programming:** C++, Python, R, MySQL, HTML, PowerShell
- **IT & Security:** Microsoft Intune, Azure Entra ID, Active Directory, Windows Server, Microsoft Office 365, Epic Systems
- **Data Science:** Machine Learning, Statistical Analysis, Data Analysis
- **Networking:** Network Troubleshooting, System Administration, IT Support, Cloud

Projects

Audio Classification Using RNNs (Purdue Data Science Research)

- Analyzed congressional rhetoric using C-SPAN audio data.
- Preprocessed audio files, converted MP4 to WAV, and extracted MFCC features using Librosa.
- Designed and trained RNN models in TensorFlow, achieving 80% validation accuracy.
- Created visualizations to showcase model accuracy and trends across epochs.

Impact of CO2 Emission on Life Expectancy Prediction Using ML

- Analyzed relationship between CO2 emissions, technology usage, and energy consumption.
- Conducted Exploratory Data Analysis (EDA) and applied Supervised Learning techniques (KNN and SVM).
- Processed a dataset of 1,334 observations, demonstrating SVM's superior predictive performance.

Microsoft Server 2022 Domain Controller Deployment

- Deployed a secure Microsoft Server 2022 Domain Controller in a virtualized environment.
- Configured local network connections and group policies using Active Directory.
- Integrated AD Certificate Services for secure PKI implementation.

Certifications

- CCNA
- AZ900 - Azure Fundamentals
- AZ104 - Azure Administrator
- CompTia A+