Michael Hernandez
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SUMMARY

New Graduate Software Engineer specializing in AI/ML, with a strong foundation in deep learning frameworks and a passion for developing innovative solutions. Completed a Master's program with a focus on machine learning and its applications. Proven ability to quickly learn and adapt to new technologies, with a goal to deliver high-impact projects in the AI/ML space.

EXPERIENCE

Machine Learning Intern
VantaLabs, Summer 2022
- Contributed to the development of a predictive maintenance model using PyTorch and scikit-learn, resulting in a 25% reduction in equipment downtime
- Collaborated with the data science team to design and implement a data pipeline using Apache Beam and Google Cloud Storage
- Presented project results to the engineering team, highlighting the potential for ML-driven decision making in industrial settings

Research Assistant
University Research Lab, 2020–2022
- Assisted in the development of a deep learning-based approach for image segmentation using TensorFlow and Keras, achieving a 90% accuracy rate on a benchmark dataset
- Co-authored a research paper on the application of ML in computer vision, published in a reputable academic journal
- Mentored junior researchers in ML fundamentals and guided them in developing their own projects

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PROJECTS

Deep Learning-Based Chatbot
Personal Project, 2021
- Designed and developed a conversational AI model using Transformers and the Hugging Face library, capable of responding to user queries with a 80% accuracy rate
- Integrated the chatbot with a React-based frontend, demonstrating a seamless user experience
- Deployed the project on a cloud platform, ensuring scalability and reliability

Image Classification Model
Academic Project, 2020
- Developed a convolutional neural network (CNN) using PyTorch, achieving a 95% accuracy rate on a benchmark image classification dataset
- Implemented data augmentation techniques to improve model robustness and generalization
- Presented the project at a university-wide AI conference, receiving positive feedback from peers and faculty

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TECHNICAL SKILLS

Languages: Python, Java, C++
Frameworks: PyTorch, TensorFlow, Keras
Cloud: AWS, GCP, Azure
Tools: Git, Docker, Jenkins
Databases: MySQL, MongoDB, PostgreSQL
OS: Windows, Linux, macOS

EDUCATION

Master of Science in Computer Science, Stanford University, 2022
GPA: 3.9/4.0
Relevant Courses: Deep Learning, Machine Learning, Computer Vision, Natural Language Processing
Thesis: "Application of Deep Learning in Image Segmentation"
Advisor: Dr. Jane Smith, Professor of Computer Science