

Alex Carter

Gender: Male

Nationality: American

Race: Caucasian

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Portfolio: alexcarterml.dev

Professional Summary

Highly skilled and innovative Machine Learning Engineer with 5+ years of experience in building, training, and deploying machine learning models, particularly for computer vision and natural language processing tasks. Proven ability to deliver robust AI solutions that optimize business operations. Passionate about leveraging cutting-edge technologies to solve complex problems.

Experience

Machine Learning Engineer

XYZ Technologies, San Francisco, CA

March 2021 – Present

- Spearheaded the development of a deep learning model to enhance object detection accuracy by 25% for autonomous driving systems.
- Deployed an AI-driven predictive analytics solution, reducing operational costs by 18% for key stakeholders.
- Collaborated cross-functionally with data scientists and software engineers to design scalable ML pipelines using TensorFlow, Keras, and PyTorch.

AI Research Intern

ABC Labs, Palo Alto, CA

June 2019 – February 2021

- Developed generative AI models for image enhancement, resulting in a 20% improvement in visual quality for low-resolution images.
 - Led a team to optimize model training, reducing processing time by 30% using distributed computing.
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Projects

Dehazing Video Frames for Fire Rescue Operations

Kumaraguru College of Technology, Coimbatore, IN

- Utilized CNN, OpenCV, and FFmpeg to develop a system that dehazes video frames for enhanced visibility in fire rescue operations.
- Optimized performance with image processing techniques, leading to real-time deployment in rescue scenarios.

Generative AI Workshop

- Organized and led a workshop titled 'Generative AI - Hands-on with Transformer', mentoring juniors on GitHub and prototyping tools like Wix.

Education

Master of Science in Computer Science

Stanford University, Stanford, CA
2017 – 2019

Bachelor of Science in Computer Engineering

University of California, Berkeley, CA
2013 – 2017

Certifications

- TensorFlow Developer Certificate – Google
- AWS Certified Machine Learning – Specialty
- Professional Certificate in Deep Learning – Coursera

Skills

- **Programming Languages:** Python, C++, JavaScript
- **Machine Learning:** TensorFlow, Keras, PyTorch, Scikit-Learn
- **Data Analysis:** Pandas, NumPy, Matplotlib
- **Big Data & Cloud:** Hadoop, AWS, Azure
- **Tools:** Git, Docker, Kubernetes
- **Soft Skills:** Leadership, Teamwork, Problem-solving

Languages

- English (Native)
- Spanish (Fluent)