

Name

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PROFESSIONAL SUMMARY

With over a decade of experience in AI and machine learning, a deep proficiency in ML platform architecture, and a Master's in Information Science, bring a proven track record of executing large-scale AI/ML projects and leading cross-functional teams. Expert in leveraging cloud-based ML platforms and frameworks such as Spark and AWS for scalable solutions, demonstrated by designing a data-sharing pipeline processing 1TB of medical data efficiently. Adept at translating complex technical concepts into actionable business strategies, fostering industry relationships, and driving innovation aligned with corporate goals. Passionate about evolving AI/ML trends, ensuring cutting-edge technologies are harnessed to benefit organizational objectives, particularly in energy systems and smart grid technologies.

EXPERIENCE

XXX Lab, University XXX XXX, PA

Software Developer - Volunteer (Spark, Elastic MapReduce, Parquet, Data Pipeline) July 2024 – Aug 2024

Developed scalable data pipelines using AWS technologies to process and query large datasets efficiently.

- Designed a secure data pipeline processing 1TB of ?? medical data using AWS S3, EMR, and Athena.
- Leveraged Spark for ETL, processing gigabytes in minutes and querying terabytes in seconds by ?? %.
- Integrated AWS QuickSight with NextJS for a user-friendly data interaction interface, reducing costs by ?? %.

Department of XXX, University XXX XXX, PA

Software Developer (Node.JS, Python-Django, NextJS) Jun 2023 – Feb 2024

Led development of Alexa skill and web integration to enhance patient-caregiver connectivity.

- Developed Alexa skill in Node.js, integrating with Django web app for seamless patient access by ?? %.
- Utilized AWS Lambda and DynamoDB for efficient execution and process status tracking by ?? %.
- Implemented JWT authentication in Django API, enhancing security with token blacklisting by ?? %.
- Deployed Next.js data visualization via AWS Amplify, streamlining CI/CD with GitHub by ?? %.
- Produced video tutorials for onboarding, ensuring project continuity and team efficiency by ?? %.

国内某科技小公司 XXX, China

Computer Vision Algorithm R&D Intern (Python, C++, Shell Script) Oct 2021 – Mar 2022

Enhanced YOLO models for robotic inspection, improving object detection accuracy and reliability.

- Fine-tuned YOLO models for server room robots, improving detection accuracy significantly by ?? %.
- Generated 10,000+ datasets from 200 using Blender, boosting YOLO model training performance by ?? %.
- Developed Gazebo environments for solar panel robots, enabling comprehensive simulation by ?? %.
- Automated testing setup, reducing preparation time from hours to ?? minutes for efficiency.
- Collaborated with teams to ?? integrate robotic systems, documenting processes for future use.

EDUCATION

University XXXX XXX, PA

Master XXX Information Science Aug 2022 - May 2024

GPA 3.95/4.0

Coursework in Cloud Computing and Network Science, aligning with ML platform architecture and lifecycle management

Projects focused on AI-driven Immersive Media Applications, showcasing leadership in cross-functional teams

University XXX (QS TOP 20)
Bachelor of Science (Honors) in Computer Science & Eng

XXX, Australia
Mar 2017 - Nov 2021

Coursework in Applied AI, Data Mining, and Deep Learning, foundational for AI/ML development
Advanced Topics in Statistical Machine Learning, relevant to MLOps and model deployment
Proficiency in programming languages: Python, Java, and Scala

SKILLS

Technical Skills: Python, Java, Scala, Machine learning frameworks, Cloud-based ML platforms, ML operations (MLOps), Model registries, Feature stores, Monitoring and retraining workflows, ML platform architecture, Model deployment, Lifecycle management, Data Science

Soft Skills: Exceptional communication skills, Leadership, Strategic planning, Decision-making, Relationship building, Ability to translate complex technical concepts into business strategies

Other Skills: Passion for evolving AIML trends, Knowledge of energy systems, Power grid analytics, Smart grid technologies

PROJECTS

Serverless Document Processing System

Time Period

Designed and delivered a serverless full-stack system using AWS services (Lambda, S3, EC2, DynamoDB, API Gateway) and ReactJS, with TypeScript and AWS CDK for infrastructure as code, showcasing expertise in cloud-based ML platforms.

Implemented DynamoDB-triggered Lambda functions for automated EC2 instance provisioning and script execution, achieving a seamless file processing workflow with cost-efficient cleanup, aligning with ML operations (MLOps) best practices.

Camping Advisor Portal

Time Period

Integrated VisualCrossing Weather API and Google Maps API for advanced data analytics and proximity-based recommendations, demonstrating strong data science and AI/ML capabilities.

Leveraged Neo4j Graph Database for data persistence, employing ExpressJS and D3JS for data visualization, aligning with strategic planning and decision-making in AI/ML projects.

Accommodation Website

Time Period

Developed an Airbnb-like housing app using React, Django, and PostgreSQL, achieving the top 10% ranking in class for its user-friendly design and fake comment detection features, illustrating proficiency in ML platform architecture and lifecycle management.

E-commerce Website

Time Period

Developed a functional lightweight e-commerce website using the MERN stack, focusing on foundational full-stack development practices and scalable design, highlighting experience in model deployment and lifecycle management.

Clinical Reminder Backend

Time Period

Developed a clinic reminder system's backend in just three days using Spring Boot, Spring MVC, and Spring Data JPA, featuring RESTful APIs for managing patient information and sending reminders, showcasing strong leadership and execution skills in AI/ML strategies.

Unity(C#) Game Development

Time Period

Led a team to win the XXX Award at XXX Game Jam with a Unity-built game, and independently developed and released a 3D adventure game, demonstrating leadership and innovation in AI/ML development.