**Name**

P: +1(000) 000-0000 | 1234@gmail.com | LinkedIn Link | Github Link

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| PROFESSIONAL SUMMARY |

Accomplished AI and Machine Learning leader with a Master's degree in Information Science and extensive experience driving large-scale AI/ML projects. Expertise in machine learning frameworks, cloud-based ML platforms, and MLOps, with a proven track record of designing scalable data pipelines and enhancing model performance using AWS technologies. Skilled in Python, Java, and Scala, with a strong ability to translate complex technical concepts into strategic business solutions. Passionate about leveraging cutting-edge AI/ML trends to drive innovation and align with Exelon's corporate goals, while fostering cross-functional collaboration and ensuring timely, budget-conscious delivery of AI/ML innovations.

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| EXPERIENCE |

**XXX Lab, University XXX** XXX, PA

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

Led the design and implementation of scalable data-sharing pipelines using AWS for medical data processing.

• Designed a data pipeline processing 1TB of ?? medical data using AWS S3, EMR, and Athena for efficient querying.

• Leveraged Spark for ETL, enabling gigabyte processing in minutes and querying terabytes in seconds by ?? %.

• Integrated AWS QuickSight with NextJS for user-friendly data interaction, reducing operational costs by ?? %.

**Department of XXX, University XXX** XXX, PA

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

Developed Alexa skills and integrated web applications to connect patients with caregivers efficiently.

• Developed Alexa skill for assessments, integrating with Django and NextJS for patient-caregiver connections by ?? %.

• Crafted Alexa skill in Node.js using AWS Lambda, employing DynamoDB for tracking process statuses by ?? %.

• Implemented advanced security in Django API with JWT and token blacklisting, hosted on AWS Elastic Beanstalk by ?? %.

• Developed data visualization features using Next.js, deployed via AWS Amplify for streamlined CI/CD by ?? %.

• Produced video tutorials for development processes, enhancing onboarding 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 object detection accuracy for server room robots using YOLO models and dataset generation.

• Fine-tuned YOLO models for server robots, enhancing object detection accuracy and reliability by ?? %.

• Generated over 10,000 datasets from 200 using Blender, improving YOLO model training performance by ?? %.

• Developed tools for Gazebo environments, facilitating comprehensive testing for solar panel cleaner robots by ?? %.

• Automated testing setup, reducing preparation time from hours to ?? minutes, streamlining workflow.

• Collaborated with teams for robotic systems integration, documenting processes for future projects by ?? %.

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| EDUCATION |

**University XXXX** XXX, PA

**Master XXX Information Science** Aug 2022 - May 2024

• GPA 3.95/4.0, demonstrating strong academic performance

• Coursework in Cloud Computing and Network Science, relevant to ML platform architecture

• Projects focused on AI/ML innovations and cloud-based solutions

• Research in Immersive Media Applications, aligning with advanced AI/ML trends

**University XXX (QS TOP 20)** XXX, Australia

**Bachelor of Science (Honors) in Computer Science & Eng** Mar 2017 - Nov 2021

• Coursework in Applied AI, Data Mining, and Deep Learning, foundational for AI/ML development

• Advanced Topics in Statistical Machine Learning, critical for model deployment and lifecycle management

• Capstone project on AI-driven energy systems, providing insight into power grid analytics and smart grid technologies

• Proficiency in programming languages such as Python, Java, and Scala

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| SKILLS |

TECHNICAL

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, Computer Vision

SOFT

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

OTHER

Proficiency in energy systems, power grid analytics, and smart grid technologies, Passion for evolving AIML trends, Organization, Planning, Feedback

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| PROJECTS |

**Serverless Document Processing System** Time Period

• Led the design and delivery of a serverless full-stack system using AWS services (Lambda, S3, EC2, DynamoDB, API Gateway) and ReactJS, showcasing expertise in cloud-based ML platforms and infrastructure as code with AWS CDK.

• Implemented DynamoDB-triggered Lambda functions for automated EC2 instance provisioning and script execution, optimizing file processing workflows and achieving a 30% cost reduction while adhering to AWS security best practices.

**Camping Advisor Portal** Time Period

• Integrated VisualCrossing Weather API and Google Maps API to enhance user experience with real-time data, demonstrating proficiency in data science and API integration.

• Utilized Neo4j Graph Database for data persistence and employed ExpressJS and D3JS for data visualization, aligning with AI/ML strategies for optimal user guidance and decision-making.

**Accommodation Website** Time Period

• Developed an Airbnb-like housing app using React, Django, and PostgreSQL, achieving a top 10% ranking for its user-friendly design and advanced fake comment detection features, highlighting skills in ML operations and lifecycle management.

**E-commerce Website** Time Period

• Created a scalable e-commerce platform using the MERN stack, focusing on foundational full-stack development practices and demonstrating capabilities in model deployment and lifecycle management.

**Clinical Reminder Backend** Time Period

• Developed a backend system for clinic reminders in just three days using Spring Boot, Spring MVC, and Spring Data JPA, featuring RESTful APIs for efficient patient management and communication, showcasing leadership in rapid project execution.

**Unity(C#) Game Development** Time Period

• Led a team to win the XXX Award at XXX Game Jam with a Unity-built game, demonstrating leadership and strategic planning skills.

• Independently developed and released a 3D adventure game on itch.io, showcasing proficiency in translating complex technical concepts into engaging user experiences.