**Name**

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

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| PROFESSIONAL SUMMARY |

As a seasoned leader in AI and Machine Learning, bring over a decade of experience in executing large-scale AI/ML projects and leading cross-functional teams to drive strategic innovation. Expertise in machine learning frameworks and cloud-based ML platforms, combined with a proven ability to design scalable, secure data pipelines, positions me as an ideal candidate for advancing Exelon's AI/ML strategies. Proficient in Python, Java, and Scala, with a strong track record in ML platform architecture, model deployment, and lifecycle management, consistently deliver results that align with corporate goals. Passionate about evolving AI/ML trends, adept at translating complex technical concepts into actionable business strategies, and committed to leveraging cutting-edge technologies to enhance organizational performance.

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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 pipelines using AWS, enhancing data processing efficiency.

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

• Leveraged Spark for ETL, processing gigabytes in minutes and querying terabytes in seconds, reducing costs by ?? %.

• Integrated AWS QuickSight with NextJS for data interaction, reducing operational costs and automating workflows by ?? %.

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

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

Developed Alexa skills and web applications to connect patients with caregivers, enhancing accessibility.

• Designed Alexa skill in Node.js, integrating with Django app for patient-caregiver connectivity from home by ?? %.

• Crafted Alexa skill using AWS Lambda and DynamoDB, efficiently tracking process statuses for users by ?? %.

• Implemented JWT authentication in Django API, securing with Nginx on AWS Elastic Beanstalk for reliability by ?? %.

• Developed data visualization with Next.js, deploying via AWS Amplify for a streamlined CI/CD pipeline by ?? %.

• Produced video tutorials for development processes, facilitating onboarding and ensuring project continuity 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 inspection robots, improving reliability and performance.

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

• Generated 10,000+ datasets from 200 using Blender, improving YOLO model training and 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 development.

• Collaborated with teams for seamless robotic 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

• Coursework in Cloud Computing and Network Science, emphasizing ML platform architecture and lifecycle management

• Projects focused on AI/ML innovations in energy systems and smart grid technologies

**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, aligning with ML operations and model deployment

• Advanced Topics in Statistical Machine Learning, focusing on model registries and feature stores

• Proficiency in programming languages: Python, Java, and Scala

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| SKILLS |

TECHNICAL

Python, Java, 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, Scala

SOFT

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

OTHER

Proficiency in programming languages such as Python, Java, or Scala, Experience in leading cross-functional teams, Executing large-scale AI/ML projects, Knowledge of energy systems, power grid analytics, and smart grid technologies

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| PROJECTS |

**Serverless Document Processing System** 2022

• 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, while adhering to AWS security best practices, demonstrating proficiency in ML operations and lifecycle management.

**Camping Advisor Portal** 2021

• Integrated VisualCrossing Weather API for 15-day weather predictions and Google Maps API for proximity-based campsite discovery, highlighting skills in data science and API integration.

• Leveraged Neo4j Graph Database for data persistence, and employed ExpressJS along with D3JS for presenting optimal meteor shower spots, assessing sunrise and sunset vistas, and offering guidance on umbrella necessity, demonstrating ability to translate complex data into actionable insights.

**Accommodation Website** 2020

• Developed an Airbnb-like housing app using React, Django, and PostgreSQL, achieving the top 10% ranking in our class for its user-friendly design and fake comment detection features, showcasing strong skills in ML platform architecture and model deployment.

**E-commerce Website** 2019

• Developed a functional lightweight e-commerce website using the MERN stack (MongoDB, Express.js, React, Node.js), focusing on foundational full-stack development practices and scalable design, demonstrating proficiency in cloud-based ML platforms and lifecycle management.

**Clinical Reminder Backend** 2018

• After analyzing consultation system needs, developed the clinic reminder system's backend in just three days using Spring Boot, Spring MVC, and Spring Data JPA. It features RESTful APIs that allow doctors to manage patient information and send reminders, showcasing strong decision-making and rapid execution skills.

**Unity(C#) Game Development** 2017

• 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 on itch.io, demonstrating leadership and cross-functional team management in a creative tech environment.