**Name**

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**PROFESSIONAL SUMMARY**

Experienced AI and Machine Learning leader with a Master’s in Information Science and a proven track record in executing large-scale AI/ML strategies. Expertise in machine learning frameworks, cloud-based ML platforms, and MLOps, including model registries and retraining workflows, aligns with Exelon's strategic goals. Successfully led cross-functional teams to develop scalable, secure data-sharing pipelines and deployed model architectures that enhance performance while reducing operational costs. Proficient in Python, Java, and Scala, with a passion for applying AIML technologies to drive innovation and business value. Strong communicator adept at translating complex technical concepts into actionable business strategies, with established industry relationships and a keen interest in evolving AIML trends.

**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 enhance data processing and querying efficiency.

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

• Leveraged Spark for ETL, compressing gigabytes of ?? data in minutes and querying terabytes in seconds.

• Integrated AWS QuickSight with a NextJS front-end, reducing operational costs and enabling future enhancements by ?? %.

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

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

Led development of Alexa skills and web applications to connect patients with caregivers efficiently.

• Developed Alexa skill in Node.js with AWS Lambda, integrating with Django for seamless patient-caregiver connections by ?? %.

• Implemented advanced security in Django API, including JWT authentication, enhancing system security by ?? %.

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

• Produced video tutorials for development processes, improving onboarding and 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 and developed simulation tools for robotics projects.

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

• Generated 10,000+ datasets using Blender, enhancing YOLO model training and performance by ?? %.

• Automated Gazebo environment setup, reducing preparation time from hours to ?? minutes for solar panel projects.

• Collaborated with teams to ?? integrate robotic systems, documenting processes for ongoing and future projects.

**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 model deployment

• Projects focused on MLOps, including model registries and monitoring workflows

• Research in energy systems and smart grid technologies, aligning with power grid analytics

**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, providing a foundation in ML operations and lifecycle management

• Advanced Topics in Statistical Machine Learning, focusing on feature stores and retraining workflows

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

**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

SOFT

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

OTHER

Proficiency in programming languages, Passion for evolving AIML trends, Knowledge of energy systems, power grid analytics, and 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, adhering to AWS security best practices, and demonstrating ML operations (MLOps) skills.

**Camping Advisor Portal** Time Period

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

• 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 the ability to translate complex data into actionable insights.

**Accommodation Website** Time Period

• 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 proficiency in AI/ML development and lifecycle management.

**E-commerce Website** Time Period

• 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, highlighting experience in cloud-based ML platforms and model deployment.

**Clinical Reminder Backend** Time Period

• Developed the clinic reminder system's backend in just three days using Spring Boot, Spring MVC, and Spring Data JPA, featuring RESTful APIs that allow doctors to manage patient information and send reminders, demonstrating strong decision-making and rapid execution skills.

**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 on itch.io, showcasing leadership and cross-functional team management skills in a competitive environment.