

# Name

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PROFESSIONAL SUMMARY

With a Master's in Information Science and extensive experience in AI/ML development, adept at leveraging machine learning frameworks and cloud-based platforms to drive innovative solutions. Proven track record in executing large-scale AI/ML projects, designing scalable data pipelines, and enhancing model performance, demonstrated by successful implementations in diverse environments including AWS and Spark. Skilled in programming languages such as Python and Java, with strong expertise in ML operations, model deployment, and lifecycle management. Exceptional communicator and strategic leader, capable of translating complex technical concepts into actionable business strategies, committed to advancing AI/ML technologies to align with Exelon's corporate goals and industry 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 and interfaces, enhancing data processing efficiency and cost-effectiveness.
- Designed a secure data-sharing pipeline processing 1TB of ?? medical data, improving efficiency using AWS technologies.
  - Leveraged Spark for ETL, compressing data to ?? process gigabytes in minutes and query terabytes in seconds.
  - Integrated AWS QuickSight with NextJS for data interaction, 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, integrating advanced security and data visualization features.
- Designed Alexa skill for patient-caregiver connection, integrating with Django and NextJS for home medical access by ?? %.
  - Crafted Alexa skill in Node.js using AWS Lambda, employing DynamoDB for efficient process status tracking by ?? %.
  - Implemented JWT authentication in Django API, securing with Nginx, hosted on AWS Elastic Beanstalk by ?? %.
  - Developed data visualization in Next.js, deploying via AWS Amplify for a streamlined CI/CD pipeline by ?? %.
  - Produced video tutorials to ?? ease onboarding, ensuring continuity and efficiency in project development.

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 models and automated testing environments, improving reliability and workflow efficiency.
- Fine-tuned YOLO models for server room robots, enhancing object detection accuracy and reliability by ?? %.
  - Generated over 10,000 datasets from 200 using Blender, improving YOLO model training and performance by ?? %.
  - Developed tools for Gazebo environments in solar panel projects, facilitating comprehensive testing by ?? %.

- Automated testing setup, reducing preparation time from hours to ?? minutes, streamlining development.
- Collaborated with teams for robotic system integration, documenting processes for ongoing projects by ?? %.

## 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 AI/ML innovations and lifecycle management

Training in MLOps, including model registries and feature stores

**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, with emphasis on AI/ML development

Advanced Topics in Statistical Machine Learning, focusing on model deployment and lifecycle management

Proficiency in programming languages: Python, Java, Scala

Capstone project on smart grid technologies and power grid analytics

## 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, Passion for evolving AIML trends

**Other Skills:** Proficiency in programming languages, Experience in leading cross-functional teams, 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, leveraging TypeScript and AWS CDK for infrastructure as code, aligning with cloud-based ML platform architecture.

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 cloud operations and lifecycle management.

**Camping Advisor Portal**

*Time Period*

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

Leveraged Neo4j Graph Database for data persistence, and employed ExpressJS (Elastic Beanstalk) along with D3JS (Glitch) for presenting optimal meteor shower spots, assessing sunrise and sunset vistas, and offering guidance on umbrella necessity, highlighting experience in data visualization and strategic planning.

**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, demonstrating expertise in full-stack development and AI-driven content moderation.

**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, showcasing skills in cloud-based platform architecture and model deployment.

### **Clinical Reminder Backend**

*Time Period*

After analyzing consultation system needs, the clinic reminder system's backend was developed 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, highlighting capabilities in rapid development and lifecycle management.

### **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, demonstrating leadership in cross-functional teams and proficiency in programming languages such as C#.