**Name**

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PROFESSIONAL SUMMARY

Innovative AI leader with a robust background in editorial operations and technology, offering over a decade of experience in senior-level roles within media and technology organizations. Demonstrated expertise in collaborating with product and technological teams to develop AI-driven solutions, enhancing editorial workflows and consumer-facing products. Proficient in AI technologies, data analysis, and machine learning applications, with a proven ability to communicate complex concepts and advocate for responsible AI usage. Successfully designed scalable data-sharing pipelines and developed advanced security features, leveraging AWS and other cutting-edge technologies to optimize performance and reduce operational costs. Equipped with a Master’s degree in Information Science, uniquely positioned to bridge journalistic principles with AI solutions, driving strategic innovation and cross-functional collaboration.

EXPERIENCE

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

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

Developed scalable data solutions using AWS for large datasets, enhancing data processing in a secure environment.

• Designed a data-sharing pipeline processing 1TB efficiently using AWS S3, EMR, and Athena for medical data analysis by ?? %.

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

• Integrated AWS QuickSight with NextJS for a user-friendly interface, reducing operational costs significantly 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 remote medical access.

• Designed Alexa skill for assessments, integrating with Django web app for easy medical resource access 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, hosted on AWS Elastic Beanstalk with Nginx by ?? %.

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

• Produced video tutorials for development processes, ensuring smooth 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 YOLO models for robotic inspection, improving object detection and reliability in server rooms.

• Fine-tuned YOLO models with local datasets, enhancing object detection accuracy for server room robots 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 development.

• Collaborated with teams for seamless robotic integration, documenting processes for ongoing projects by ?? %.

EDUCATION

**University XXXX** XXX, PA

**Master XXX Information Science (GPA 3.95/4.0)** Aug 2022 - May 2024

• Developed AI-driven solutions for media applications in 'Immersive Media Applications' course

• Collaborated with cross-functional teams on 'Application of Networks' project, focusing on editorial technology

• Explored cloud-based AI tools in 'Cloud Computing' to enhance editorial workflows

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

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

• Conducted data analysis and machine learning projects in 'Applied AI' and 'Data Mining'

• Led a team project on 'Deep Learning' applications in consumer media products

• Studied 'Advanced Topics in Statistical Machine Learning' with a focus on AI ethics and media implications

SKILLS

**TECHNICAL**

AI technologies, Data analysis, Machine learning applications, Consumer product development, Python, Java, AWS, Docker, Data Science, Go

**SOFT**

Leadership, Strategic mindset, Cross-functional collaboration, Communication of complex concepts, Advocacy for AI ethics, Decision-making, Organization

**OTHER**

Editorial operations, Collaboration with product and technological teams, Responsible AI usage, Journalistic principles

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, enhancing editorial workflows through automation.

• 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 advanced AI technology application in media contexts.

**Camping Advisor Portal** Time Period

• Integrated VisualCrossing Weather API for 15-day weather predictions and Google Maps API for proximity-based campsite discovery, showcasing consumer product development skills.

• Leveraged Neo4j Graph Database for data persistence, employing ExpressJS and D3JS to present optimal meteor shower spots and assess sunrise and sunset vistas, aligning with data analysis and machine learning applications in media.

**Accommodation Website** Time Period

• Developed an Airbnb-like housing app using React, Django, and PostgreSQL, achieving a top 10% ranking for user-friendly design and fake comment detection features, demonstrating consumer product development and data analysis capabilities.

**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, illustrating cross-functional collaboration and strategic mindset.

**Clinical Reminder Backend** Time Period

• Developed the clinic reminder system's backend in three days using Spring Boot, Spring MVC, and Spring Data JPA, featuring RESTful APIs for managing patient information and sending reminders, showcasing leadership and decision-making skills in a fast-paced environment.

**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 and the ability to communicate complex concepts through interactive media.