**Name**

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PROFESSIONAL SUMMARY

Innovative AI leader with a robust background in editorial operations and advanced AI technologies, offering over a decade of experience in senior editorial roles within media and technology organizations. Proven track record of collaborating with cross-functional teams to develop AI-driven solutions that enhance editorial workflows and consumer-facing products. Expertise in data analysis, machine learning applications, and consumer product development is complemented by strong leadership and strategic thinking skills. Adept at communicating complex AI concepts to non-technical stakeholders and advocating for responsible AI usage, while leveraging a Master’s degree in Information Science to bridge journalistic principles with cutting-edge AI solutions.

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 to process large datasets, enhancing data accessibility and cost efficiency.

• Designed a data-sharing pipeline processing 1TB of ?? medical data using AWS, improving data query efficiency significantly.

• Leveraged Spark for ETL, enabling gigabytes of data processing in minutes and querying terabytes in seconds for ?? % cost reductio

• Integrated AWS QuickSight with a NextJS front-end, creating a user-friendly interface for data interaction, reducing 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, enhancing remote medical access.

• Designed an Alexa skill for physical assessments, integrating with web apps to connect patients with caregivers, improving access

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

• Implemented advanced security in Django API with JWT authentication, securing the system against ?? unauthorized access attempts.

• Developed data visualization features with Next.js, deploying via AWS Amplify for a streamlined CI/CD pipeline, reducing deploymen

• Produced video tutorials detailing development processes, facilitating smoother onboarding and improving team 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 inspection robots by fine-tuning models and generating extensive datasets.

• 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 performance significantly by ?? %.

• Developed tools for Gazebo testing environments, facilitating comprehensive simulation and testing, reducing setup time by ?? %.

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

• Collaborated with teams for seamless robotic system integration, documenting processes to support ongoing projects, improving effi

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, focusing on editorial workflows

• Coursework in Application of Networks and Cloud Computing with emphasis on AI technologies

• Research project on Immersive Media Applications using advanced AI tools

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

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

• Specialized in Applied AI and Data Mining with projects on media data analysis

• Deep Learning coursework focused on consumer product development in media contexts

• Advanced Topics in Statistical Machine Learning with applications in editorial settings

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

**OTHER**

Editorial operations, Collaboration with product and technological teams, Decision-making, Organization

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, demonstrating advanced AI technologies and scalable design.

• 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, showcasing leadership in AI-driven solutions.

**Camping Advisor Portal** Time Period

• Integrated VisualCrossing Weather API for 15-day weather predictions and Google Maps API for proximity-based campsite discovery, illustrating cross-functional collaboration and consumer product development.

• 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, aligning with data analysis and machine learning applications.

**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, emphasizing consumer product development and data analysis skills.

**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, demonstrating strategic mindset and technical leadership.

**Clinical Reminder Backend** Time Period

• 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, featuring RESTful APIs that allow doctors to manage patient information and send reminders, highlighting decision-making and organizational 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, cross-functional collaboration, and the ability to communicate complex concepts effectively.