**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 sectors. Proven track record in collaborating with product and technology teams to develop AI-driven solutions, enhancing editorial workflows and consumer-facing products. Expertise in data analysis, machine learning, and consumer product development, underpinned by a Master's degree in Information Science. Adept at communicating complex AI concepts to non-technical stakeholders and advocating for responsible AI usage, consistently delivering strategic insights and practical applications that align with organizational goals.

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 and user interaction for medical data projects.

• Designed a data pipeline processing 1TB of ?? medical data, leveraging AWS for efficient querying and scalability.

• Optimized ETL processes using Spark, reducing data processing time to ?? minutes and querying terabytes in seconds.

• Integrated AWS QuickSight with a NextJS front-end, creating a user-friendly platform reducing costs 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, enhancing patient-caregiver connectivity and security.

• Developed Alexa skill integrated with Django, connecting patients to caregivers with ?? % improved access.

• Utilized AWS Lambda for efficient Alexa skill execution, tracking processes with DynamoDB for ?? % accuracy.

• Implemented JWT authentication in Django API, enhancing security and reducing unauthorized access by ?? %.

• Created data visualization features with Next.js, deploying via AWS Amplify for ?? % faster CI/CD cycles.

• Produced video tutorials for development processes, improving team onboarding 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 for robots and developed simulation tools, improving accuracy and testing efficiency.

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

• Generated 10,000 datasets from 200 using Blender, boosting YOLO model training efficiency significantly by ?? %.

• Developed Gazebo environments for solar panel robots, streamlining testing processes by ?? %.

• Automated testing setup, reducing preparation time from hours to ?? minutes, enhancing workflow efficiency.

• Collaborated with teams for robotic system integration, documenting processes for future project support by ?? %.

EDUCATION

**University XXXX** XXX, PA

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

• Developed AI-driven solutions for immersive media applications, enhancing editorial workflows

• Collaborated on projects focusing on the application of networks and cloud computing in media contexts

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

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

• Completed advanced coursework in Applied AI and Deep Learning, focusing on media applications

• Conducted data mining and statistical machine learning projects with implications for consumer product development

SKILLS

**TECHNICAL**

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

**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, Proven track record in media and editorial context

PROJECTS

**Serverless Document Processing System** Time Period

• Collaborated with product and technological teams to design and deliver 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.

• 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.

**Camping Advisor Portal** Time Period

• Integrated VisualCrossing Weather API for 15-day weather predictions and Google Maps API for proximity-based campsite discovery, enhancing consumer product development in a media context.

• 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.

**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 strong data analysis and consumer product development 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, highlighting cross-functional collaboration and consumer product development.

**Clinical Reminder Backend** Time Period

• Analyzed consultation system needs and developed a 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, showcasing leadership and decision-making 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, strategic mindset, and the ability to communicate complex concepts through interactive media.