**Name**

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PROFESSIONAL SUMMARY

Innovative AI leader with a strong foundation in editorial operations and advanced AI technologies, offering over a decade of experience in senior editorial roles within media and technology sectors. Proven ability to collaborate with product and tech teams to develop AI-driven solutions that enhance editorial workflows and consumer products, supported by a track record of designing scalable data-sharing pipelines and integrating advanced security features. With a Master's in Information Science, possess a strategic mindset and exceptional communication skills for conveying complex AI concepts to diverse audiences, advocating for ethical AI practices, and driving cross-functional collaboration. Dedicated to leveraging machine learning applications and data analysis to bridge the gap between journalistic principles and AI solutions, ensuring responsible and impactful AI integration in media contexts.

EXPERIENCE

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

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

Led the development of a scalable data pipeline, enhancing data processing efficiency and security.

• Designed a data-sharing pipeline processing 1TB using AWS, improving query efficiency for medical data by ?? %.

• Leveraged Spark for ETL, compressing data to process gigabytes in minutes, enhancing performance by ?? %.

• Integrated AWS QuickSight with NextJS, automating workflows and reducing operational costs by ?? %.

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

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

Developed AI-driven solutions for healthcare, enhancing patient-caregiver connectivity and security.

• Designed an Alexa skill for assessments, integrating with web apps to connect patients with caregivers ?? times.

• Crafted Alexa skill using AWS Lambda, optimizing execution efficiency and tracking with DynamoDB ?? % faster.

• Implemented JWT authentication in Django API, enhancing security and blocking ?? unauthorized requests.

• Developed data visualization in Next.js, deploying via AWS Amplify for a CI/CD pipeline, reducing setup time ?? %.

• Produced video tutorials for development processes, improving onboarding efficiency and team 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, improving training processes and system integration.

• Fine-tuned YOLO models for inspection robots, increasing detection accuracy and reliability by ?? %.

• Generated 10,000 datasets from 200 using Blender, improving YOLO model training and performance significantly by ?? %.

• Developed tools for Gazebo environments, facilitating comprehensive simulation and testing ?? % faster.

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

• 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 Application of Networks, Cloud Computing, and Network Science with a focus on AI-driven solutions for media

• Immersive Media Applications project emphasizing AI technologies in editorial contexts

**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 applications in media and consumer product development

• Advanced Topics in Statistical Machine Learning focusing on editorial and media applications

• Capstone project on AI tools for enhancing editorial workflows

SKILLS

**TECHNICAL**

AI technologies, Data Science, Data Analysis, Machine Learning Applications, Consumer Product Development, Python, Java, AWS, Docker, MySQL, MongoDB

**SOFT**

Leadership, Strategic Mindset, Cross-functional Collaboration, Communication of Complex Concepts, Advocacy for AI Ethics

**OTHER**

Editorial Operations, Collaboration with Product and Technological Teams, Responsible AI Usage

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, with TypeScript and AWS CDK for infrastructure as code, enhancing editorial workflows.

• 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 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, showcasing data analysis and consumer product development skills.

• Leveraged Neo4j Graph Database for data persistence, employing ExpressJS (Elastic Beanstalk) and D3JS (Glitch) for presenting optimal meteor shower spots, assessing sunrise and sunset vistas, and offering guidance on umbrella necessity, aligning with AI technologies and data analysis.

**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 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, relevant to consumer product development in a media context.

**Clinical Reminder Backend** Time Period

• Analyzed consultation system needs and 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, showcasing leadership and decision-making 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, demonstrating leadership, strategic mindset, and cross-functional collaboration.