**Name**

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PROFESSIONAL SUMMARY

Innovative AI leader with a robust background in editorial operations and over a decade of experience in senior-level roles within media and technology organizations. Adept at leveraging AI technologies, data analysis, and machine learning to develop consumer products and enhance editorial workflows, demonstrated by the successful design of scalable data-sharing pipelines and advanced security systems. Proven track record of collaborating with cross-functional teams to create AI-driven solutions, including integrating AWS technologies for efficient data processing and developing Alexa skills for enhanced user interaction. Committed to advocating for responsible AI usage and effectively communicating complex concepts to diverse stakeholders, ensuring strategic alignment and ethical implementation of AI in media contexts.

EXPERIENCE

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

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

Developed scalable data-sharing pipelines using AWS, enhancing data processing efficiency for large datasets.

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

• Optimized ETL with Spark, reducing data processing time to ?? minutes and enabling querying of terabytes in seconds.

• Integrated AWS QuickSight with NextJS, creating a user-friendly interface that reduced operational 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 data security.

• Developed Alexa skill for physical assessments, integrating with Django for seamless patient-caregiver connectivity by ?? %.

• Utilized AWS Lambda and DynamoDB for efficient Alexa skill execution, tracking process statuses across ?? regions.

• Enhanced security in Django API with JWT authentication, hosted on AWS Elastic Beanstalk, securing ?? requests/day.

• Created data visualization features with Next.js, deploying via AWS Amplify for a streamlined CI/CD pipeline by ?? %.

• Produced video tutorials, facilitating onboarding and ensuring continuity in project development for ?? new members.

**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 and developed testing tools for robotic projects.

• Improved YOLO model accuracy for server room robots, fine-tuning with local datasets for ?? % better reliability.

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

• Created 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 workflows.

• 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 Cloud Computing and Network Science, focusing on AI-driven solutions for media contexts

• Projects on Immersive Media Applications, emphasizing AI technologies and editorial workflows

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

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

• Coursework in Applied AI and Deep Learning, with a focus on consumer product development

• Advanced Topics in Statistical Machine Learning, relevant to data analysis in media

• Data Mining projects that align with editorial operations and AI applications

SKILLS

TECHNICAL

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

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

• 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 consumer product development skills.

• 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 class for its user-friendly design and fake comment detection features, demonstrating expertise in consumer product development and data analysis.

**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 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 that allow doctors to manage patient information and send reminders, highlighting 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 the ability to communicate complex concepts.