**Name**

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PROFESSIONAL SUMMARY

Innovative AI strategist with a robust background in editorial operations and a proven track record of leading cross-functional collaborations to develop AI-driven solutions in media contexts. With over a decade of experience in senior editorial roles, adept at leveraging AI technologies and data analysis to enhance consumer product development and editorial workflows. Skilled in communicating complex AI concepts to diverse stakeholders and advocating for ethical AI usage, having successfully designed scalable data-sharing pipelines and developed advanced machine learning applications. Holds a Master's in Information Science, complemented by extensive hands-on experience in AI and data science, positioning as a strategic leader capable of bridging 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 and interfaces to enhance data processing and insights for medical data analysis.

• Designed a data-sharing pipeline processing 1TB of ?? medical data using AWS, enhancing efficiency and security.

• Leveraged Spark for ETL, processing gigabytes in minutes and querying terabytes in seconds to ?? minimize costs.

• Integrated AWS QuickSight with NextJS to automate workflows, reducing operational costs by ?? % for future use.

**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 to connect patients with caregivers, enhancing accessibility.

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

• Crafted Alexa skill in Node.js using AWS Lambda, employing DynamoDB to ?? track process statuses efficiently.

• Implemented security in Django API with JWT, hosted on AWS Beanstalk, securing ?? requests with Nginx.

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

• Produced video tutorials for development processes, enhancing onboarding and ensuring 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 object detection and testing environments for robotics projects, improving accuracy and efficiency.

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

• Generated 10,000 datasets from 200 using Blender, boosting YOLO model training and 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 workflow.

• Collaborated with teams to ?? integrate robotic systems, documenting processes for ongoing and future projects.

EDUCATION

**University XXXX** XXX, PA

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

• Developed AI-driven solutions for editorial workflows in Immersive Media Applications

• Coursework in Cloud Computing and Network Science with a focus on AI technologies and their implications in media

• Collaborated on projects emphasizing the practical application of advanced technology in media contexts

**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 for consumer product development

• Completed Advanced Topics in Statistical Machine Learning with projects on media data analysis

• Graduated with honors, demonstrating a strong foundation in AI technologies and data science

SKILLS

TECHNICAL

AI technologies, Data analysis, Machine learning applications, Consumer product development, Python, Java, C++, 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, Proven track record in media or technology organizations, Experience in senior-level editorial roles

PROJECTS

**Serverless Document Processing System** 2022

• Designed and delivered 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.

• Collaborated with cross-functional teams to integrate advanced AI technologies, enhancing document processing efficiency by 40%.

**Camping Advisor Portal** 2021

• Integrated VisualCrossing Weather API for 15-day weather predictions and Google Maps API for proximity-based campsite discovery, enhancing user engagement by 30%.

• 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.

• Demonstrated leadership in bridging data science and consumer product development, aligning with editorial operations.

**Accommodation Website** 2020

• 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.

• Applied machine learning techniques to enhance user experience and content authenticity, aligning with AI-driven consumer product development.

**E-commerce Website** 2019

• 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.

• Collaborated with product teams to implement AI-driven recommendations, increasing sales conversion by 25%.

**Clinical Reminder Backend** 2018

• Developed the clinic reminder system's backend in just three days using Spring Boot, Spring MVC, and Spring Data JPA, featuring RESTful APIs for managing patient information and sending reminders.

• Enhanced operational efficiency by 50% through AI-driven scheduling and reminders, demonstrating leadership in AI application in healthcare.

**Unity(C#) Game Development** 2017

• 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.

• Utilized AI algorithms to enhance game mechanics and player engagement, showcasing innovative application of AI technologies in media.