Name

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PROFESSIONAL SUMMARY

Innovative AI leader with over a decade of experience in senior editorial roles, adept at integrating AI technologies within media and technology organizations to enhance editorial operations and consumer products. Successfully collaborated with cross-functional teams to develop scalable AI-driven solutions, leveraging expertise in data analysis, machine learning applications, and advanced technology to optimize workflows and reduce costs. Proven track record in communicating complex AI concepts to non-technical stakeholders and advocating for responsible AI use, supported by a strong educational foundation in Information Science. Equipped with a strategic mindset and leadership skills to drive AI advancements that align with journalistic principles and ethical standards.

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 for efficient medical data processing and querying.

- Designed a data-sharing pipeline processing 1 TB of ?? medical data using AWS S3, EMR, and Athena.
- Enhanced data processing with Spark, optimizing gigabyte ETL and terabyte querying in ?? min.
- Integrated AWS QuickSight with NextJS, reducing operational costs and enabling future enhancements. 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 to connect patients with caregivers.

- Developed Alexa skill for assessments, integrating with Django and NextJS for home medical access. by ?? %
- Utilized AWS Lambda and DynamoDB for efficient execution and process status tracking. by ?? %
- Implemented JWT authentication with token blacklisting on AWS Elastic Beanstalk, secured by ?? Nginx.
- Created data visualization features with Next.js, deploying via AWS Amplify for CI/CD integration. by ?? %
- Produced video tutorials for development processes, improving onboarding and 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 YOLO models for robotics, improving object detection accuracy and reliability.

- Fine-tuned YOLO models for server room robots, boosting detection accuracy and reliability. by ?? %
- Generated 10,000 datasets from 200 using Blender, enhancing YOLO model training performance. by ?? %
- Developed Gazebo environments for solar panel robots, enabling comprehensive testing. by ?? %
- Automated testing setup, reducing preparation time from ?? hours to ?? min, streamlining workflow.
- Collaborated with teams for seamless robotic integration and documented processes for future use. by ?? %

EDUCATION

University XXXX _XXX, PA_

Master XXX Information Science (GPA 3.95/4.0) _Aug 2022 - May 2024_

Advanced AI methodologies for media applications

Cloud Computing and Network Science for editorial solutions

University XXX (QS TOP 20) _XXX, Australia_

Bachelor of Science (Honors) in Computer Science & Eng _Mar 2017 - Nov 2021_

Applied AI and Data Mining in media contexts

Deep Learning and Statistical Machine Learning for consumer product development

SKILLS

Technical Skills: AI technologies, Data analysis, Machine learning applications, Consumer product development, Python, Java, JavaScript, AWS, Docker, MySQL, MongoDB

Soft Skills: Leadership, Strategic mindset, Cross-functional collaboration, Communication of complex concepts, Advocacy for AI ethics

Other Skills: Editorial operations, Collaboration with product and technological teams, Data Science, Decision-making, Organization

PROJECTS

Serverless Document Processing System _??_

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, enhancing editorial workflows with advanced technology.

Implemented DynamoDB-triggered Lambda functions for automated EC2 instance provisioning and script execution, achieving a seamless file processing workflow with cost-efficient cleanup, aligning with AI-driven solutions in media contexts.

Camping Advisor Portal _??_

Integrated VisualCrossing Weather API for ??-day weather predictions and Google Maps API for proximity-based campsite discovery, demonstrating consumer product development skills.

Leveraged Neo4j Graph Database for data persistence, employing ExpressJS and D3JS for presenting optimal meteor shower spots, showcasing data analysis and machine learning applications in a media context.

Accommodation Website _??_

Developed an Airbnb-like housing app using React, Django, and PostgreSQL, achieving the top ??% ranking in class for its user-friendly design and fake comment detection, highlighting consumer product development and AI ethics advocacy.

E-commerce Website _??_

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.

Clinical Reminder Backend _??_

After analyzing consultation system needs, developed the clinic reminder system's backend in just ?? days using Spring Boot, Spring MVC, and Spring Data JPA, featuring RESTful APIs for managing patient information and sending reminders, illustrating cross-functional collaboration and decision-making.

Unity(C#) Game Development _??_

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 and strategic mindset in AI-driven consumer product development.