Name

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PROFESSIONAL SUMMARY

With a robust background in software development and data science, coupled with advanced editorial experience, bring a strategic mindset to lead AI initiatives within media and technology sectors. Leveraging over a decade of experience in senior editorial roles, adept at collaborating with cross-functional teams to develop AI-driven solutions that enhance editorial workflows and consumer products. Proven ability to design and implement scalable data solutions, evidenced by creating a secure data-sharing pipeline processing 1TB of medical data, and developing machine learning applications that optimize performance and reduce costs. Committed to advocating for responsible AI usage, capable of communicating complex AI concepts to diverse stakeholders while driving innovation and strategic growth in editorial operations.

EXPERIENCE

XXX Lab, University XXX   *XXX, PA*

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

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

- Designed a data pipeline processing 1 TB of ?? medical data using AWS S3, EMR, and Athena.
- Enhanced data processing with Spark, enabling querying of terabytes in ?? seconds.
- Integrated AWS QuickSight for insights, reducing 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 apps, improving patient-caregiver connectivity using AWS technologies.

- Developed Alexa skill for assessments, connecting patients with caregivers using Node.js. by ?? %
- Utilized AWS Lambda and DynamoDB for efficient skill execution and status tracking. by ?? %
- Implemented JWT authentication in Django API, enhancing security with ?? blacklisting.
- Deployed Next.js visualizations via AWS Amplify, streamlining CI/CD with GitHub. by ?? %
- Created video tutorials for development processes, improving 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 accuracy in robotics using YOLO models and extensive dataset generation.

- Improved YOLO model accuracy with ?? % more reliable object detection.
- Generated 10,000 datasets from 200 using Blender, boosting training performance. by ?? %
- Developed Gazebo environments for solar robots, enhancing testing by ?? %.
- Automated testing setup, reducing preparation time to ?? min.
- Collaborated with teams for seamless robotic integration, documenting processes for ?? projects.

EDUCATION

University XXXX   *XXX, PA*

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

Advanced AI methodologies in media applications

Cloud Computing for editorial technology solutions

University XXX (QS TOP ??)   *XXX, Australia*
Bachelor of Science (Honors) in Computer Science & Eng   *Mar 2017 - Nov 2021*

Applied AI in consumer product development
Deep Learning for media data analysis

SKILLS

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

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, 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 through automated document processing.

Implemented DynamoDB-triggered Lambda functions for automated EC2 instance provisioning and script execution, achieving a ??% improvement in file processing efficiency while adhering to AWS security best practices.

Camping Advisor Portal   *??*

Integrated VisualCrossing Weather API for ??-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 and employed ExpressJS (Elastic Beanstalk) along with D3JS (Glitch) for presenting optimal meteor shower spots, demonstrating cross-functional collaboration and data visualization expertise.

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 features, highlighting consumer product development capabilities.

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   *??*

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, demonstrating rapid development and data management skills.

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, showcasing leadership and cross-functional collaboration in a creative technology context.