Rany ElHousieny

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Summary

Seasoned AI and software engineering leader with over 30 years of experience, including pioneering NLP advancements at Microsoft and driving Generative AI innovation at Clearwater Analytics. Expertise in building scalable AI solutions, cloud architectures (AWS), and leading diverse teams. Ready to drive In Technology Group Inc's technical strategy and innovation.

Experience

Generative AI Engineering Manager | AI Solutions Architect
Clearwater Analytics
2022 - Present (2 years)

• Led the development and deployment of enterprise-grade Generative AI solutions for the FinTech sector, optimizing client experiences with AI-driven automation, reducing costs by 23%.
• Built scalable AI pipelines for training models such as GPT, Llama2, and Zephyr, integrated with financial applications, increasing scalability by 10%.
• Migrated legacy systems to a microservices architecture on AWS for cloud-based AI deployment, reducing operational costs by 24% and enhancing system performance, created multi-agents system that increased bookings by 10%.

Senior Manager of Software Engineering | Solutions Architect | ML/Data Engineer
Zulily
2020 - 2022 (2 years)

• Improved personalization and recommendations using machine learning, enhancing customer engagement by optimizing NLP-driven conversational chat solutions.
• Delivered two high-performing web applications for curation and profit analysis, increasing operational efficiency and profit by 20% ($4M).
• Migrated monolithic systems to AWS Serverless GraphQL microservices, reducing response times and operational costs significantly.

Senior Manager of Software Engineering | Solutions Architect
A Place for Mom
2018 - 2020 (2 years)

• Automated lead generation pipelines using AI, NLP, and ML, saving over 1,400 hours monthly in manual labor ($3.8M annually).
• Redesigned and rebuilt the company's website with a mobile-first approach, improving search rankings and increasing leads by 40% YoY.

• Migrated on-premise data centers to AWS, saving $1M annually and introducing robust cybersecurity measures.

Principal Manager of AI & Software Engineering | Head of NLP
Microsoft Research and Azure AI
2010 - 2018 (8 years)

• Led the design and development of the Language Understanding Intelligent Service (LUIS), now a cornerstone of Microsoft Azure's Conversational AI suite, increasing customer satisfaction by over 30%.
• Directed cross-functional teams in scaling NLP models to multiple languages and domains, achieving a 40% improvement in scalability and performance.
• Pioneered the migration of monolithic AI systems to microservices, reducing manual processes by over 80% and saving millions annually in operational costs.

Education

Nova Southeastern University
PhD (ABD), Computer and Information Sciences
2008 - 2014

Nova Southeastern University
Master, Computer and Information Sciences
2004 - 2008

Licenses & Certifications

Azure Cloud Certified

AWS Certified Solutions Architect

ReactJS with Redux Certification

Microservices Certified Solutions Architect

Skills

Python • Java • C++ • PyTorch • TensorFlow • HuggingFace • JAX • LangChain • FastAPI • Azure AI

Honors & Awards

Microsoft Gold Star Award

High Impact Award

Audience favorite award