Nayeem Belal

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TECHNICAL SKILLS

Languages: Java, Python, JavaScript/TypeScript, R, SQL, C++, C#, HTML/CSS
Frameworks: Spring Boot, React.js, Node.js, .NET6
Developer Tools: Azure, Docker, Kubernetes, AWS, PostgresSQL, ArgoCD, MySQL, Git

EXPERIENCE

Software Engineer Intern   May 2022 – Aug 2023
Starbucks Coffee Company   *Seattle, WA*
- Developed scalable software solutions in the cloud, resulting in a 10% increase in speed and responsiveness.
- Rapidly mastered new technologies to update a **.NET6 API** on **AWS**, enhancing functionality for millions of users' favorite stores.
- Developed a flexible module using **React.Js** and Next.js in **TypeScript**, increasing on my knowledge of front-end web technologies.
- Worked on customer-focused architectures and restful web services which taught me the intricacies of Software Development.

AI Student Researcher   May 2024 – Present
The University of Texas at Dallas   *Dallas, TX*
- Engaged in comprehensive research on the development and architecture of large language models (LLMs)
- Explored advanced methods for scaling **LLMs**, including distributed training and efficient data handling, to improve model performance and reduce computational costs.
- Conducted experiments with various **LLM architectures**, leading to significant insights into model behavior and enhancements in natural language understanding capabilities.
- Developed and evaluated custom **LLM prototypes**, successfully implementing innovative approaches that improved model accuracy and versatility.

PROJECTS

QOTW | *React Native, Java Spring Boot, AWS*   Jan 2024
- Led the development of a mobile conversation-facilitation app using **React Native** for cross-platform functionality and Java Spring Boot for backend services.
- Acquired industry-level expertise in cloud architectures through extensive use of AWS, mastering services such as RDS and S3 to ensure scalable, reliable, and efficient infrastructure setups.
- Engineered secure and scalable APIs using **Spring Boot**, integrating advanced security protocols to safeguard data and user interactions.

AI LinkedIn Content Creator | *Node.js, OpenAI API*   May 2024
- Developed and optimized AI-driven content generation using the **OpenAI Completions API** to enhance natural language understanding and generation.
- Solely designed and implemented prompt engineering techniques for large-scale AI models, improving the accuracy and relevance of generated content by **30%**.
- Integrated AI prompt engineering solutions into production environments

VirtualTA | *Python, React.js, Firebase*   Apr 2024
- Engineered a Virtual TA using Google's **Gemini AI**, autonomously designing a system to provide real-time coding and technology support to students.
- Implemented back-end functionality with **Python**, sharpening my ability to thrive and deliver results in a fast-paced, technology-driven environment.
- Crafted an intuitive front-end using **React.js** to adapt to new technologies and user needs, ensuring an engaging and effective user experience.

EDUCATION

The University Of Texas at Dallas
Bachelor of Science in Computer Science   *Aug. 2021 – May 2024*