Xu Wang

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Education

Virginia Tech   **Aug. 2020 – Dec. 2021**
M.Eng in Computer Science GPA 4.0   *Falls Church, VA*

Experience

Geico   **Remote**
Software Engineer II   *May. 2024 – Present*

- Worked in the core insurance platform organization, building business logic for Geico's latest tier and rating system.
- As an engineer in the first-layer data retrieval service, actively performed on-call duties, managed production releases, and efficiently triaged and resolved bugs by identifying root causes and routing issues to the appropriate downstream systems.
- Led code clean-up and refactoring initiatives. Identified and retired all obsolete code from code base. Managed and guided cross-team regression testing to ensure system stability during refactoring.
- Auditing existing code base and identified potential mismatch area between vendor response and service output. During the process, identified and implemented an improved logging solution and optimized Cosmos DB queries.
- Refactored and modularized core business logic into a reusable NuGet package, improving maintainability and enabling seamless integration across multiple services.
- Developed multiple APIs in .NET to mock vendor data responses. These APIs improved efficiency and ensured high reliability for testing purposes. The use of mock APIs significantly reduced turnaround time for both manual and automation testing teams.

Amergis Healthcare Staffing   **Jan. 2024 – May. 2024**
Software Engineer I   *Columbia, MD*

- Worked on developing the MaxView application. MaxView is a web application that offers timekeeping, communication, recruiting analytics and candidate status management services. Contributed to code migration from .NET MVC to React.js + .NET framework.
- Integrated embedded Power BI reports into the MaxView app, developing UI components in React and building the controller and service layers in .NET. Introduced a custom error handling dialog that ensures UI consistency.
- Designed and developed a secrets and certificate management system using Azure Key Vault and Event Grid, automating secret and certificate rotation through Azure Functions that triggered by nearing expiry events.
- Designed the workflow for feature flag implementation. Developed flag list and details UI in React and integrated feature flag services in .NET with data stored in Azure Key Vault, ensuring seamless transitions during code refactoring.
- Developed secure authentication and authorization endpoints in .NET to manage access and refresh tokens, encrypting and storing refresh tokens in Azure Key Vault for secure validation.

Dyson   **May. 2022 – June. 2023**
Software Engineer   *Shanghai, China*

- Worked on MyDyson Application. This is an IoT mobile application for managing Dyson devices, providing user personalized features of their Dyson machines.
- Developed the "Instant Control" set of pages for pre-releasing Dyson machines. Designed listening queue to process real-time MQTT messages, achieving zero-delay, no-loss of messages.
- Implemented user manual and troubleshooting guides web pages, resulting in over 3,000 monthly interactions and a 10% boost in user engagement metrics.
- Participated refinement process of user interface design. Refining animation effects in existing components. This refactoring significantly reduces memory usage when loading the page.
- Collaborated closely with the UI/UX team to implement new components design following material UI design principles. Redesigned around 30% of components including swiper, card and data containers.
- Engaged in Agile methodologies, completing 100% of assigned tickets on schedule, which contributed to on-time delivery of project milestones.

Technical Skills

Programming Languages: C#, TypeScript/JavaScript, Java, C++, Python, Kotlin, SQL
Frameworks/Tools: React, Vite, Webpack 5, Jest, .NET Framework, Node.js, Springboot, Django
Cloud : Azure CLI, Azure Portal, Azure KeyVault, Azure Event Grid, Azure Function