

Shad Khan

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Education

Georgia Institute of Technology

M.S. Computer Science, Specialization in Computing Systems

May 2024

GPA: 4.000

- **Organizations:** Teaching Assistant for CS6035: Introduction to Information Security

University of Maryland

B.S. Computer Science, Business Analytics Minor

May 2020

GPA: 3.578

- **Awards:** UMD President's Scholarship, Semester Academic Honors (2018 – 2020)
- **Organizations:** Resident Assistant, Kappa Theta Pi Professional Technology Fraternity, Technica Hackathon Organizer

Technical Skills

Languages – Core Strengths: Java, Python, JavaScript, KQL **Experience With:** C++, C#, HTML/CSS, SQL

Technologies – Experience with: Node.js, React, Vue, Pandas

Work Experience

Microsoft

Software Engineer II – Azure Storage: Stream Layer & Storage Air-Gapped Clouds

Reston, VA

August 2021 – Present

- Designed a centralized source-of-truth Storage Cluster Capacity API to reduce the redundancy of complex calculations throughout the Storage codebase and provide insights regarding our storage clusters' capacity utilization and limitations
- Developed various technical enhancements for the aforementioned API, such as a website on the cluster's diagnostic server for engineers to gauge capacity during livesite incidents, asynchronous updates and application-level caching of the calculations to safeguard performance on the hosting process, and metrics for real-time capacity monitoring
- Fixed data pipeline and quality issues en route to Kusto tables to improve node and cluster health data interpretation
- [Air-Gapped Clouds]: Storage leader for Stream Layer incident mitigation, root cause analysis, and knowledge sharing
- [Air-Gapped Clouds]: Coordinated with teams to enable Azure Outage Detection for Storage control-plane operations
- [Air-Gapped Clouds]: Set up numerous Kusto Clusters and automated their buildout to prepare them for data ingestion

Chewy

Full Stack Software Engineer – Web Platform: Pet Health

Boston, MA

June 2020 – July 2021

- Added core path-to-purchase healthcare e-commerce features to the customer-facing Chewy Web Platform, a large-scale presentation layer frontend application (Vue.js, Java, Kotlin) that can handle up to 300K concurrent users and 6K RPS
- Reduced rendering time to display healthcare pricing options on the Chewy Product Page by 3600ms by optimizing rendering logic, ensuring that customers can view all pricing options for Chewy Pharmacy items in real-time
- Owned the design and implementation of a feature to allow customers to add healthcare product bundles to their Chewy Subscription (Autoship), resulting in healthcare products accounting for ~17% of Autoship bundle order sales
- Migrated code in monolithic frontend applications (JavaScript) to microsite single page applications (TypeScript), decoupling business logic and drastically reducing time for releases from a weekly cadence to within the hour
- Promoted instantaneous response times to production incidents by creating Splunk and Datadog monitoring and alerts, utilized during peak sales periods (Black Friday, Cyber Monday) to anticipate and resolve potential customer issues

Projects

Georgia Tech Bookstore

July 2023

- Developing a Single-Page web application with a group of teaching assistants for students to safely learn about and practice various web security exploits such as Cross-Site Scripting, Cross-Site Request Forgery, and SQL Injection
- Frontend built with React.js and React Router, Backend built on the ASP.NET web framework and a SQLite DB engine