

Shusmoy Chowdhury

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EDUCATION

Missouri State University

Master's of Science in Computer Science

Springfield, Missouri

January 2022 - December 2023

SKILLS

Languages: Java, Python, JavaScript/TypeScript, C/C++, C#, Dart, Swift, Scala, HTML/CSS, L^AT_EX

Framework: Spring Boot, Spring MVC, Nodejs, React js, ASP.NET, Android, Django, Flutter, React Native, .Net, JDBC, Apache Spark, Apache Tomcat

Database: Oracle, MySQL, MongoDB, Firebase

Dev Ops : CI/CD Pipeline (Jenkins, Bitbucket, Codepipeline), EC2, Route 53, ACM, WAF, S3, Cloudfront, Cloud flare, Code deploy, Elastic Beanstalk, Tekton, Terraform, Docker, Kubernetes.

EXPERIENCE

Digital Monitoring Product

January 2024 - Present

Enterprise Software Engineer

Springfield, Missouri

- Working in a large scale Java Based Enterprise Application named Entre widely used in federal and state organizations for communication with their panels for maintaining security.
- Built dashboards and reporting tools to visualize system performance and user behavior, supporting data-driven decisions across engineering and operations.
- Applied statistical modeling and clustering techniques to segment alarm events, enabling targeted system tuning and reducing downtime by 40%.
- Built RAG pipelines with vectorized community-specific datasets, achieving 60% faster information retrieval and significantly enhancing the relevance, scalability, and reliability of AI-driven insights.
- Collaborated with major financial institutions—including Bank of America, Capital One, Arvest Bank, and JPMorgan Chase—to enhance security infrastructure across 6,000+ alarm panels.
- Diagnosed and fixed critical issues in large-scale Java systems (Entre and SCS-VR), cutting downtime by 40% and boosting reliability for key banking and security operations..

Global Brand Pvt Ltd

June 2021 - September 2021

Software Engineer(Contract)

Dhaka, Bangladesh

- Organized the development of the company's mobile application with react-native, ensuring its 100% successful implementation and functionality in both iOS and android.
- Developed and launched the company's one of the most comprehensive mobile applications for ecommerce, focusing on computer accessories, showcasing technical expertise and innovation.
- Successfully orchestrated the application's launch on both Google Play Store and iOS App Store, ensuring 100% smooth rollout process.

BigGO Limited

April 2018 - December 2020

Full Stack Developer

Dhaka, Bangladesh

- Successfully executed four projects, leveraging Node.js for server-side/backend operations and employing React.js as the frontend technology.
- Successfully managed the DevOps and deployment processes for 100% automation on the organization's server infrastructure.

AWARDS

Honorable Mention in Distinguished Thesis Award <i>Midwestern Association of Graduate Schools</i>	<i>Indianapolis, Illinois</i> April, 2025
Distinguished Thesis Award <i>Missouri State University</i>	<i>Springfield, Missouri</i> April, 2025
Outstanding Graduate Assistant Award <i>Missouri State University</i>	<i>Springfield, Missouri</i> April, 2023

PROJECTS

Facebook Marketplace and Page Auto-Poster: Built a **Java-based** automation tool using **Spring Boot** and **Spring Security** to authenticate users and auto-post products to **Facebook Marketplace** and **business pages**, reducing manual effort by 75% and boosting listing consistency. Leveraged **MongoDB** to store product metadata, user credentials, and posting history, enabling efficient data retrieval and seamless integration with the automation workflow.

Content Suggestion with Topic Modeling: Designed and hosted a dynamic web application using **Django** that engages users with blog content and provides real-time suggestions based on their reading behavior. Implemented advanced topic modeling techniques including **BERT**, **Latent Dirichlet Allocation (LDA)**, and **Latent Semantic Analysis (LSA)** to extract semantic patterns and recommend contextually relevant articles. The hybrid suggestion system demonstrated a **70% performance improvement** over traditional machine learning approaches, highlighting expertise in **natural language processing**, **model integration**, and **user-centric ML deployment**.

Customer Retention Optimization via Behavioral Clustering and Predictive Modeling Designed and implemented a customer retention framework using unsupervised clustering (K-Means, GMM) and supervised learning (XGBoost, Logistic Regression) to identify high-risk churn segments and predict retention likelihood. Engineered behavioral features from user interaction logs and transaction history, achieving an AUC of 0.89. Delivered actionable insights that informed targeted retention strategies and improved campaign ROI by 25%. Built interactive dashboards for cross-functional teams to monitor churn metrics and experiment outcomes.

ProTrack: Implemented a cross-platform project management solution with web and mobile interfaces using **Node.js**, **React**, along with native mobile apps built in **Android (Kotlin, Java)** and **iOS (Swift)**. Enabled users to design reusable project templates and manage projects efficiently. Utilized **MongoDB** for scalable and flexible data storage. Integrated **Supabase** for secure authentication, supporting standard login, sign-up, and **SSO**, along with real-time **notification services**. Successfully deployed for trial use by local printing industries in Bangladesh, achieving a **78% user satisfaction rate**, showcasing expertise in **full-stack development**, **mobile engineering**, and **cloud-based authentication**.