AFROZ AHMED

**SOFTWARE DEVLOPMENT LEAD**

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# SUMMARY

Experienced and agile software developer with 8 years of expertise in end-to-end web application development. Proficient in designing and implementing secure, scalable, and maintainable solutions across various industries. Adept at leveraging modern frameworks and cloud technologies to build responsive applications and intelligent systems, including chatbots.

Demonstrated ability to enhance user experiences, optimize performance, and streamline processes through innovative coding and architecture. Skilled in collaborating with cross-functional teams to deliver high-quality products on time. Passionate about continuous learning and applying best practices in software development to drive business success

# AREAS OF EXPERTISE

JavaScript, TypeScript, React.js, Redux, Node.js, Express.js, MongoDB, PostgreSQL, Chatbot Development, AWS, Amazon Lex, AWS Lambda, DynamoDB, CI/CD Pipeline, Jenkins, GIT, RESTful APIs, JWT Authentication, Socket.IO, Micro Frontend Architecture, Microservices Architecture, Kubernetes, Docker, Splunk, Chai, Mocha, Sinon, Cypress, React Testing Library

# PROFESSIONAL EXPERIENCE

**SOFTWARE DEVLOPMENT LEAD | Brillio *07/2021 to Current***

* Developed and optimized React applications with Redux for state management, integrating third-party libraries and building reusable UI components.
* Implemented performance enhancements through code splitting and lazy loading.
* Designed and implemented RESTful APIs using Node.js and Express.js, facilitating communication between front-end and back-end while managing data persistence with MongoDB to ensure query optimization and data integrity.
* Migrated Webpack from v4 to v5 and created a functional object schema validator for various inputs.
* Implemented Site Reliability Engineering (SRE) improvements to enhance system stability and performance.
* Developed a logger for NSP to standardize application log formats, ensuring consistency and easier log management.
* Developed a notification system with Socket.IO.
* Implemented GraphQL APIs to allow clients to fetch exactly the required data, reducing over-fetching and improving response efficiency by up to 30%.
* Designed and integrated strongly typed GraphQL schemas and resolvers with Node.js backend, enabling scalable and maintainable API architecture.
* Leveraged GitHub Copilot Chat to accelerate development by generating code snippets, debugging issues, and exploring language features within the IDE.
* Used Copilot Chat to assist in writing unit tests and documentation, significantly reducing development turnaround time and improving code quality.
* Established user authentication and authorization mechanisms using JWT.
* Deployed applications on cloud platforms and managed CI/CD pipelines for streamlined release processes.
* Managed Kubernetes ConfigMaps and Secrets to securely handle environment variables and sensitive information, ensuring efficient deployment and compliance with security best practices.
* Improved code quality and application reliability through Test-Driven Development (TDD) with Cypress, Chai, Mocha, and Sinon.

**SOFTWARE DEVELOPER | Allstate *02/2017 to 07/2021***

* Played a key role in creating innovative applications to enhance user experience and streamline processes for Allstate.
* Contributed to a web application that enables agents to obtain quotes and convert prospects into customers in the Home Insurance Application.
* Upgraded the Alliance platform from Java Servlet to a responsive application using React and Redux.
* Integrated and configured a Jenkins pipeline for continuous integration and deployment.
* Implemented SonarQube to improve code quality and optimize performance.
* Analyzed business logic and backend services using SoapUI.
* Developed a customer-facing chatbot using Amazon Lex to enhance usability and provide prompt guidance for website users.
* Designed sample utterances and training intents for improved responsiveness in the chatbot.
* Built a serverless application leveraging AWS Lambda and DynamoDB for efficient data handling, while utilizing Node.js for implementing business logic.
* Monitored performance metrics with Amazon CloudWatch and implemented a reporting system using Splunk.
* Created responsive UI components with React.js and Redux to ensure a seamless user experience.
* Enhanced intent accuracy and reporting through visualization tools like Matplotlib.

# EDUCATION

Post Graduate Diploma in Advanced Computing | CDAC | 02/2017

B. Tech. in Electronics and Communication Engineering | Dr. A.P.J. Abdul Kalam Technical University | 06/2016

# ACCOMPLISHMENTS

Brillian of the Month Awards for exceptional contributions, including building the TourMe feature (August 2024), effectively securing profiles for new positions (June 2024) and enhancing user experience in the NSP application (August 2023).

Brillio Special Award (May 2022) for outstanding performance recognized by the client.

Standing Ovation Award (Q4 FY20) & Spot Award (Q3 FY18) for exceptional performance and contributions among Allstate team members.