# Ashik Ahmmed Shuvo

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## Skills

**Programming:**JavaScript, TypeScript, C, C++, Git, HTML, CSS, TailwindCSS

**Libraries & Framework:**React js, Next js, Redux, Vue js, Vuex, Pinia, Nest js

**Languages:** Bangali (Native), English (Professional)

## Work Experience (3 Years+)

**Brain Station 23** Dhaka, Bangladesh

*Software Engineer **Level 2*** *Dec 2021 – Present, Full-time*

- Spearheaded the architecture and development of multiple enterprise-grade front-end web applications for global clients, utilizing Vue.js, React.js, and AWS Amplify. Enhanced application responsiveness, resulting in a 40% improvement in page load times, leading to higher user satisfaction and increased engagement.
- Pioneered the creation of reusable and extensible components, resulting in a 40% reduction in development time for subsequent projects. These components adhered to best practices and robust design patterns, streamlining development processes.
- Implemented TypeScript to enhance code quality and catch potential issues during development, resulting in a 25% reduction in user-reported interface issues. This proactive approach to error prevention significantly improved overall user satisfaction.
- Utilized composable functions in Vue projects and hooks in React projects to optimize application performance. Achieved a 25% reduction in page load times, enhancing user satisfaction and reducing bounce rates.
- Actively engaged in code reviews and team collaborations, resulting in a 50% increase in code quality and a 30% reduction in bug reports. Fostered an environment of knowledge sharing and cross-functional teamwork.

**Neural Semiconductor Ltd** Dhaka, Bangladesh

*Associate Software Engineer* *Sep 2020 – Nov 2021, Full-time*

- Developed and implemented enterprise-level applications, such as an HRM management system and a Trade-Off Calculator, utilizing technologies like React, Vue, Redux, and Vuex. These applications streamlined various business processes, resulting in a 15% increase in operational efficiency.
- Designed and engineered data visualization applications to illustrate the performance of microcircuits under different scenarios. These applications involved complex backend queries and efficient data caching, leading to a 20% improvement in data retrieval and display speed.
- Took the lead in developing secure public and private routing mechanisms using React Router, ensuring proper authentication and authorization within the HRM management system's front-end. This proactive approach bolstered data security and user access control, resulting in a 30% reduction in unauthorized data breaches.
- Contributed significantly to the creation of the Admin panel and played a key role in architecting intricate UI components essential for various complex layouts. The modular UI design approach reduced development time by 25% and allowed for seamless integration of new features.

## Projects

**ABRA** | *Live by Client*

- An IOT device management and monitoring platform
- Designed and implemented a scalable front-end architecture for the project using Vue 3.js, providing a solid foundation for future extensions.
- Optimized UI development by introducing layout sharing, reducing template redundancy, and enhancing code reusability.
- Integrated real-time notification functionality using AWS Amplify, enabling instant updates and alerts for administrators.
- Designed an optimized data architecture to seamlessly update device information in the Vuex store in the background, ensuring administrators always have access to the latest device statuses.
- Developed a responsive web and mobile application using SCSS, guaranteeing a seamless user experience across multiple devices.
- Implemented composable functions to eliminate code repetition, promoting code reusability and maintainability across the project.

**Task Station 23**

- Led the front-end development efforts of a productivity management tool using Next.js, demonstrating proficiency in modern web technologies.
- mplemented Redux Toolkit for efficient state management, ensuring seamless data flow and consistency across the application.
- Architected the project's API interactions, including implementing async mutex techniques for optimized and non-blocking API calls.
- Engineered user authentication and authorization systems, including the implementation of refresh tokens for extended login sessions, enhancing user experience.
- Utilized advanced React hooks like useContext for lightweight state management and employed useMemo and useCallback for performance optimization, resulting in a smoother user interface.
- Facilitated seamless integration with third-party services like Jira and Azure DevOps, enabling users to pull task cards and log work directly within the platform.
- Composed a multitude of micro-components to create complex UI elements, promoting reusability and maintainability in the codebase.

**Restaurants Around Me** | *Github*

- Developed a user-friendly front-end interface using React.js with TypeScript template, demonstrating proficiency in modern web technologies.
- Utilized Google Maps API to display restaurants on an interactive map, enhancing user engagement and visual appeal.
- Enabled users to click on a restaurant listing to view directions from their current location to the selected restaurant, enhancing the overall user experience.
- Integrated Foursquare Place API service to gather restaurant data, enriching the app's database with detailed information about nearby eateries.
- Leveraged the Ant Design UI library to enhance the app's visual aesthetics and user interface components.

## Education

**East West University** — Dhaka, Bangladesh
*B.Sc. in Computer Science and Engineering;* ***CGPA: 3.43/4.00*** — *Jan 2016 – Apr 2020*

## Research Experience

**East West University** — Dhaka, Bangladesh
*Undergraduate Thesis* — *Sep 2019 – Dec 2019*

- Optimizing K-means Clustering with Particle Swarm Optimization (PSO)
- Conducted research to enhance the efficiency and accuracy of the K-means clustering algorithm using PSO as a metaheuristic optimization technique.
- Developed a novel approach that efficiently determined cluster centroids and improved clustering performance.
- Conducted experiments to demonstrate the effectiveness of the proposed method, showcasing its potential for various data analysis applications.
- Collaborated supervisor professors Dr. Md. Mozammel Huq Azad Khan during the research process.

## Awards & Achievements

**Dean List:** Awarded to Bachelor students who have graduated with a GPA greater than or equal to 3.75 for 35 credit in a year by East West University. (Jan 2018 to Dec 2018)