Alvin Mahmud

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EXPERIENCE

Software Engineer   July 2022 – December 2024
Fiserv (Clover)   *Berkeley Heights, NJ*

Payroll & Onboarding
- Collaborated with designers to translate UI/UX specifications into reusable React components, ensuring a scalable and consistent onboarding process.
- Integrated third-party payroll APIs using React, TypeScript, Java, and Spring Boot to streamline paycheck processing, tax calculations, and direct deposit management.
- Leveraged Kafka for event-driven payroll processing, enabling seamless and efficient data flow across services.

Employees Dashboard
- Implemented a Schedules dashboard following Clover's microfrontend/microservice architecture, allowing business owners to assign shifts and manage employee availability efficiently.
- Migrated legacy Device Passcode page from Ember to React, improving maintainability and performance by 30% via modern technologies.
- Developed a search and filtering system using React and TypeScript, allowing business owners to efficiently find employees by name, role, and onboarding status.
- Refactored custom React hooks to better handle asynchronous employee data fetching and state updates, reducing bugs and improving reliability.

Merchant Profile
- Spearheaded a full-featured business logo upload system using React and Typescript, validating file format and size through backend API calls.
- Integrated Google and Yelp API to display real-time reviews and business information, aiding user engagement for over 700,000 businesses.
- Orchestrated micro-app deployment using Jenkins, Docker, and Kubernetes for scalability and availability.
- Monitored application performance and resolved incidents while on call using Grafana and Datadog, enhancing system stability by 20%.

Lead System Administrator   June 2021 – June 2022
SOBA College Recovery   *New Brunswick, NJ*
- Administered user access and permissions in Active Directory, ensuring secure authentication and compliance.
- Oversaw a Pi-hole initiative to enhance network security and ad blocking across office locations, developing a Python program for users to monitor traffic and manage blocked domains.

Software Engineer Research Assistant   January 2021 – May 2021
Stony Brook University   *Stony Brook, NY*
- Implemented role-based access control (RBAC) using Java, ensuring only authorized students and instructors could submit and review assignments.
- Designed and optimized MongoDB schemas to store student data, classwork submissions, and grades, ensuring fast retrieval and efficient querying.

SKILLS

Languages: JavaScript, Typescript, Java, Python, CSS, HTML, SQL
Technologies: React.js, Spring Boot, Node.js, Kafka, MongoDB
Developer Tools: Git, AWS, GCP, Kubernetes, Docker, JSON, XML, Confluence

EDUCATION

Stony Brook University   Stony Brook, NY
B.S. in Computer Information Systems   *2017 – 2021*