# Arunabh Saikia

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## Professional Summary

**Senior Full Stack Engineer** with 8+ years of experience transforming enterprise systems through strategic architecture and optimization. A proven leader achieving rapid career progression (2 promotions in 4 years) through consistent high-impact work, who has **boosted revenue by 1.5%**, **slashed transfer time by 80%**, and **significantly enhanced user engagement (achieving up to 95%+ across projects and an 18% increase in customer retention**). Eager to apply advanced full-stack capabilities to deliver impactful software solutions.

## Relevant Experience

### *Senior Full Stack Engineer* @ Adobe                    June 2021 – Present          San Francisco, CA

▷ **Engineered core ecommerce solutions for Generative AI assets, enabling merchandising and licensing which now accounts for 1.5% of total stock revenue.** Updated Checkout API for real time content ID fetching via a centralized licensing module and GraphQL, ensuring seamless integration across all Stock 2.0 surfaces for upsell workflows.

▷ **Spearheaded comprehensive modernization and redesign of customer checkout flow** (frontend & backend), integrating new customer segments, diverse payment providers, and flexible sign-in. Implemented a streamlined, multi-step process with real-time validation and analytics, **boosting customer retention by 18% and overall conversion by 12%.**

▷ **Streamlined Adobe Stock's checkout** integration across web & desktop apps by **developing a modular, self-contained commerce** component system that encapsulates all licensing /purchasing functionality of Adobe Stock. This initiative **reduced new integration development effort by up to 83**% (from 10-30 points to <5 points) and eliminated duplicated configuration code (recognized with performance bonus for sustained high impact).

▷ **Led modernization of Adobe Stock's Plans page** to a dynamically rendered, accessible (100% WCAG 2.1 AA) platform via Franklin Headless Framework and Adobe Spectrum. Enabled rapid content updates and real-time pricing (GraphQL), **boosting GNARR by $1.5M** and **reducing bounce rate by 3%.**

### *Front End Developer* @ ManifestHQ, Inc.                    May 2020 – May 2021          Chicago, IL

▷ Led development of a **responsive, mobile-first React.js web app** (TypeScript, Node.js, Styled Components) for 401k retirement funds transfers, **reducing transfer time by 80%.**

▷ Architected a reusable UI library (npm package, Storybook) with **80% test coverage** for the UI library and **40% for the client application**, ensuring consistency and maintainability.

▷ Established and managed continuous deployment pipelines from Bitbucket to AWS S3; **integrating React frontend with Spring Boot backend via secure REST APIs**.

▷ Translated business & user requirements into technical specifications through **collaboration with CTO and UX teams**, ensuring performant, secure & maintainable code.

### *Software Engineer* @ IBM                    March 2016 – July 2019          Bangalore, India

▷ Championed Agile Methodologies across full SDLC, crafting enterprise applications with **Microservices architecture and Object-Oriented design** in Python, Java, Node.js & Express.

▷ Pioneered innovative solutions, including a new web automation framework for a Telecom Client, **shortening testing time by 70%.**

▷ Authored a custom Data Management Tool using python & Java, **minimizing data validation time by 90%, resulting in faster project turnaround**.

▷ Architected and implemented comprehensive Unit, Regression, and Integration test scripts; engineered and maintained responsive UI features in React, HTML, and CSS.

## Teaching & Mentorship

### *Project Reviewer & Classroom Mentor* @ Udacity                    February 2017 – July 2019          Bangalore, India

▷ **Reviewed student projects** for Udacity's Data Scientist Nanodegree; **mentored batches of 30 students**, **improving engagement and graduation rates**.

## Skills

**Languages:** Python, JavaScript (ES6), TypeScript, HTML, CSS, PHP, Java, SQL
**Frameworks & Tools:** React, Express.js, Node.js, Redux, RTL, Jest, Enzyme, Cypress, Java Spring, Styled Components, Git, Firebase, AWS, GCP, Docker, CI/CD, GraphQL, Nginx, Webpack
**Architectural concepts:** Microservices, Distributed Systems, API Design (RESTful, GraphQL), Cloud Architecture, Scalability & Performance Optimization, Agile Methodologies, Test-Driven Development (TDD), System Design, Security Best Practices (OAuth 2.0, JWT)
**Databases:** PostgreSQL, NoSQL, MongoDB, Cassandra

## Education

**MS in CS (GPA: 3.6/4.0), Illinois Institute of Technology**                    July 2019 – July 2021          Chicago, IL

## Projects

### **PrepAlgo - Intelligent Coding Practice Platform (prepalgo.com)**

▷ Pioneered a sophisticated machine learning recommendation system with 5 adaptive strategies, continuously adjusting to user performance; established intelligent user classification algorithms (85%+ accuracy) via MongoDB aggregation pipelines across 40+ algorithm topics.

▷ Built a real-time analytics dashboard (Styled Components, React Hooks, Redux) with advanced data visualization, achieving 95%+ user engagement and 98% mobile compatibility.

▷ Designed and deployed scalable cloud infrastructure (GCP - Cloud Run, Cloud Build, Docker, Firebase, CI/CD, MongoDB Atlas); added secure user authentication using Google Login (OAuth 2.0) for seamless access; developed a comprehensive testing framework with 296+ automated test cases.

## Achievements & Certifications

▷ Winner of *Hacktober 2021* - Code Platoon and Illinois Joining Forces (IJF).

▷ Earned **Machine Learning Engineer Nanodegree (Udacity)** with *Capstone* on Human Activity Recognition using deep learning models (LSTM, CNN) with 94.75% accuracy.