

Jasleen Bedi

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Professional Summary

Senior Frontend-focused Full-Stack Engineer with 9+ years of experience building scalable enterprise applications using **React, Next.js, and TypeScript**. Expertise in architecting **accessibility-first design systems** and optimizing **frontend performance** to improve developer productivity and UI consistency. Proven track record delivering business-critical systems, complemented by experience with Node.js APIs, AWS-based data workflows, and CI/CD automation.

TECHNICAL SKILLS

Frontend: React, Next.js, Angular, TypeScript, ES6+, HTML5, CSS3, TailwindCSS, SCSS, Responsive Design, ARIA, WCAG2.1, Semantic HTML

State Management: Redux Toolkit, Context API, ngRx, RxJS, Custom Hooks

Testing: Jest, React Testing Library, Playwright, Cypress, ESLint, Prettier, SonarQube, Integration Testing, Visual Regression Testing

Backend & APIs: Node.js, Express.js, Python, REST APIs, GraphQL, Apollo Server, JWT, OAuth 2.0

DevOps: GitHub Actions, Jenkins, OpenShift, JFrog, TFS, Docker

Performance: Code Splitting, Lazy Loading, Memoization, Critical CSS, Web Workers, Webpack

Cloud & Data: AWS (S3, Glue, Athena, QuickSight), AWS Secrets Manager, HashiCorp Vault

Databases: PostgreSQL, Snowflake, SQL Server, Oracle, MongoDB, Redis

AI & Orchestration: AI-assisted coding, Prompt Engineering, MCP, OpenAI LLM models

PROFESSIONAL EXPERIENCE

Discover Financial Services

Aug 2020 - Present

Senior Application Engineer

- Enabled **17 dev teams** across **9 lines of business** to self-serve data controls mitigating risks by building the **Control Enablement Workbench** (no-code, metadata-driven UI), onboarding **1000 pipelines** and reducing manual configuration and deployment friction.
- Built a **real-time Rewards Opportunity** engine that identified under-engaged cardholders with high external purchase intent, **back-testing 30 days** of historical data in **Node.js** to establish an **80%** precision threshold for targeted 5% cashback incentives.
- Productionized eligibility decisions through an **Apollo GraphQL orchestration** layer and delivered a 3-screen React dashboard with useInfiniteQuery and Axios to surface real-time insights from Snowflake and third-party behavioral data.
- Led the development of the **Consumption Asset Inventory (CAI)** tool, adopted enterprise-wide to manage **thousands** of data assets, enhancing governed and transparent data consumption practices.
- Built and scaled a centralized, accessibility-first design system using React, Next, TypeScript and Tailwind CSS, reducing frontend development time by **25%** and standardizing UI delivery across high-impact financial applications.
- Improved web performance by reducing page-load time 70% (10s -> 3s) for high-volume workflows using **code-splitting, lazy loading, and bundle optimisation**.
- Eliminated **10+ hours** of weekly manual data reconciliation by engineering automated Node.js and Python services that synchronized **PostgreSQL** and **Snowflake** in real-time, effectively removing SQL-related production errors.

Software Developer

Dec 2016 – Jul 2020

Client: United Airlines, Chicago, IL

- Modernized a **20-year-old legacy system** (Orion) with the **Revenue Pricing and Management platform**, impacting thousands of users and speeding up pricing decisions.
- Developed **Node.js** and **Express** backend integrations, ensuring reliable communication, and worked across **Oracle, PostgreSQL, SQL Server, and Snowflake** to power data-driven applications.
- Led **Git branching strategies** and managed TFS environments, **eliminating engineering release downtime** and establishing coding practices adopted across the team.

Early Experience | Software Engineer

2015 - 2016

Remote Tiger, Inc., CSE Software Inc., SeaReach Ltd, Bradley University

- Built and deployed full-stack web applications using AngularJS, ASP.NET MVC, REST APIs, and SQL Server.
- Developed email communication features and system-driven notifications to automate platform workflows.
- Began implementing unit testing and CI/CD practices, establishing early foundations for stable releases.

AWARDS, SPEAKING AND INDUSTRY ENGAGEMENT

Red Hat Summit Speaker | Beyond Prompts: Building Responsible AI Agents with LangGraph and MCP

TEDx Speaker | TEDxIllinoisTech, Chicago, IL

Global Finalist | Women in Tech Global Awards

Judge | IIT Innovation Day, DePaul University Hackathon

Speaker/Panelist | WomenTech Network, DPI Career Day, ACM IIT

SpecSquad Ambassador | Grace Hopper Celebration (AnitaB.org)

Technical Mentor | IIT Strong Start, Topmate

EDUCATION and CERTIFICATIONS

Master of Computer Science | Bradley University, Illinois | Jan 2014 - Dec 2015

Professional Certifications:

- **AWS Certified Solutions Architect - Associate** | Amazon Web Services | 2021
- **Cybersecurity Certificate** | Cornell University | 2025
- **Python Programming Certificate** | Cornell University | 2025