

Shreyas Mulay

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Pune (MH), India

PROFESSIONAL SUMMARY

Results-driven **Senior Frontend Engineer** with **11 years of experience**, specializing in **modern web development, UI/UX engineering, and interactive 3D applications**. Adept at building **scalable, high-performance front-end solutions** using **ReactJS, Web Components, Three.js, and React Three Fiber**. Passionate about **performance optimization, AI-driven applications, interactive web experiences, and agile development**. Proven ability to optimize rendering performance, reduce API load times, and enhance UI responsiveness for enterprise applications.

CORE COMPETENCIES

- **AI-Driven Web Development** – Integrating ML models into front-end applications to enhance interactivity and automation.
- **Interactive 3D Web Applications** – Expertise in **Three.js, React Three Fiber**, and **WebGL** for immersive user experiences.
- **High-Performance & Scalable Frontend Architecture** – Implementing caching, pagination, and optimization techniques.
- **Cloud-Native & Serverless Frontend Solutions** – Utilizing **AWS, Firebase, and edge computing** for low-latency applications.
- **Component-Based UI Development** – Proficient in **ReactJS, Web Components**, and state management libraries (Redux, Context API etc).
- **Payment & Authentication Systems** – Implementing **Stripe** for secure transactions and **OAuth-based authentication** (Google, Apple, Discord).
- **Microservices & API Optimization** – Experience in designing and consuming RESTful APIs efficiently.
- **Agile & DevOps Practices** – CI/CD pipelines, automated testing, and **Git-based version control**.
- **Cross-Browser & Mobile-Optimized Development** – Ensuring accessibility and responsiveness for various device form factors.
- **Performance Engineering & Code Optimization** – Implementing **lazy loading, memoization, and bundling techniques** to improve speed.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript

Frontend: ReactJS, Web Components, Three.js, React Three Fiber, Bootstrap, jQuery, HTML5, CSS3

Backend: Node.js, Express.js

Databases: Firestore, MongoDB, MySQL

Tools & Platforms: Git, GitHub, JIRA, Jenkins, AWS (EC2, S3), Docker

Testing Frameworks: Jest, Karma, Protractor

PROFESSIONAL EXPERIENCE

Anything World (Sept 2022 – Present)

Full Stack Engineer (Frontend Focused)

- Developing **AI-driven 3D web applications** using **ReactJS, Three.js, and React Three Fiber**.
- Optimized frontend rendering performance, reducing load times by **35%** through caching, memoization, and efficient state management.
- Implementing **ML-based animation services** that dynamically animate static 3D models provided by users.
- Utilizing **ML services to generate 3D models from text and images**, enhancing automation in content creation.
- Integrated **OAuth authentication (Google, Apple, Discord)** and **Stripe payments**, improving user retention by **20%**.
- Integrating **Stripe for payment processing**, ensuring secure and scalable transactions.
- Building and maintaining backend services using **Node.js and Express.js**.
- Collaborating closely with 3D artists and game developers to integrate **AI-powered tools for real-time content manipulation**.
- Led API response time optimization, achieving **50%** faster interactions through strategic **pagination and data caching**.

DBS Bank, Hyderabad (Feb 2017 – Aug 2022)

Senior Associate | Frontend Developer

- Led **UI/UX optimizations**, improving user interaction speeds by **30%** for enterprise banking applications.
- Implemented best-in-class accessibility standards, reducing user friction and improving engagement rates.
- Maintained **high-performance front-end architecture**, optimizing rendering performance.
- Spearheaded test-driven development (TDD) with **95%+** unit test coverage for mission-critical applications.

Infogain India Pvt. Ltd., Bangalore (Mar 2015 – Nov 2016)

Software Engineer

- Designed and implemented **visually interactive HTML5-based reporting tools** using **Node.js and AngularJS**.
- Reduced development time from **2 weeks to 2 days** with intuitive UI solutions.
- Optimized rendering performance for large datasets, improving efficiency by **45%**.
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Nextlevl Retail Technologies Pvt. Ltd., Bangalore (Dec 2013 – Mar 2015)

Software Engineer

- Developed a **unified marketing automation platform** for SMBs using **Spring MVC, Java, MySQL**.
 - Integrated **AWS services (EC2, S3, SQS)** for cloud scalability.
 - Optimized UI rendering, reducing lag and enhancing customer experience by 25%.
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KEY PROJECTS

AI-Powered 3D Web Applications – Anything World (Animate Anything & Generate Anything)

- Built **immersive 3D experiences** using **Three.js and React Three Fiber**.
- Developed **real-time AI-powered visualizations** for interactive applications.
- Integrated **ML services to animate static 3D models dynamically**.
- Implemented **AI-based 3D model generation from text and images**, automating creative workflows.
- Integrated **Google, Apple, and Discord authentication** for enhanced user experience.
- Implemented **Stripe payment solutions**, ensuring secure transactions.
- Applied **pagination and caching strategies** for improved performance.

Central Liability System (CLS) – DBS Bank

- Led **ReactJS**-based frontend development, improving UX by **30%**.
- Ensured production stability with robust **test-driven development (TDD)**.

Operations Bridge Reporter – HPE

- Designed **HTML5-based dynamic reporting dashboards**, improving insights.
 - Optimized data visualization performance for enterprise analytics.
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CERTIFICATIONS & ACHIEVEMENTS

- More than **50 IBM Professional Badges** (<https://www.credly.com/users/shreyasmulay23/badges>). Among **world's top 40 badge earners**(<https://upskillcreate.com/badges-are-you-ready-for-whats-next/>)
 - **Published Research in Cloud Computing & Load Balancing**. *Published in International Journals (IJAIEM, IJRET) & TEICC Conference.*
 - **Oracle Certified Professional, Java SE 6 Programmer.**
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EDUCATION

Master of Technology (Computer Science) – Amity University Rajasthan (2011 – 2013) | **CGPA: 8.69**
Bachelor of Engineering (Computer Science & Engineering) – Rajiv Gandhi Technical University, Bhopal (2007 – 2011) | **73.47%**