

# Shreyas Mulay

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Pune (MH), India

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## PROFESSIONAL SUMMARY

Senior Full Stack Engineer with **11+ years** of expertise in **modern web development, UI/UX engineering, and interactive 3D applications**. Skilled in **React, Next.js, Web Components, Three.js, and Node.js**, with a focus on **scalable, high-performance front-end solutions**. Passionate about **AI-driven applications, performance optimization, and interactive web experiences**, delivering **optimized rendering, reduced API load times, and enhanced UI responsiveness** for enterprise applications.

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## CORE COMPETENCIES

- **AI-Driven Web Development** – Leveraging **Text-to-3D and Image-to-3D ML APIs** for dynamic model creation, with **AI-powered auto-rigging** and animation to streamline motion workflows without manual intervention.
  - **Interactive 3D Web Applications** – Expertise in **Three.js** and **React Three Fiber** for building immersive, high-performance 3D experiences in the browser.
  - **High-Performance & Scalable Frontend Architecture** – Optimizing performance with caching, pagination, lazy loading, memoization, and bundle splitting.
  - **Cloud-Native & Serverless Deployments** – Deploying applications on **Heroku, Vercel, and Google Cloud Platform (GCP)** for seamless scalability and low-latency performance.
  - **Component-Based UI Development** – Proficient in **ReactJS, Web Components, and state management (Redux, Context API, etc)** for modular, maintainable UIs.
  - **Payment & Authentication Systems** – Secure transaction handling via **Stripe** and user authentication with **OAuth (Google, Apple, Discord, Firebase Auth)**.
  - **Microservices & API Optimization** Designing and integrating **RESTful APIs**, optimizing request handling, and ensuring efficient data flow.
  - **Agile & DevOps Practices** – Implementing **CI/CD pipelines, automated testing (Jest, Cypress), and Git-based version control** for streamlined development.
  - **Cross-Browser & Mobile-Optimized Development** – Ensuring **responsiveness, accessibility (WCAG), and PWA compatibility** for optimal user experience.
  - **Infrastructure & Performance Engineering** – Leveraging **Heroku, Vercel, and GCP** for cloud deployments, load balancing, and serverless functions.
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## TECHNICAL SKILLS

**Languages:** JavaScript (ES6+), TypeScript

**Frontend:** React, Next JS, Web Components, Three.js, React Three Fiber, Bootstrap, Tailwind CSS

**Backend:** Node.js, Express.js

**Databases:** Firestore, MongoDB, MySQL

**Tools, Platforms and Infra:** Git, GitHub, JIRA, Jenkins, Docker, Heroku, Vercel, Google Cloud Platform  
**Testing Frameworks:** Jest, Karma, Protractor

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## PROFESSIONAL EXPERIENCE

### Anything World, London UK (Remote) (Sept 2022 – Present)

#### Senior Full Stack Engineer

- Developing **AI-driven 3D web applications** using **React, Node.js, 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 | Full Stack Engineer

- Led **UI/UX optimizations**, improving user interaction speeds by **30%** for enterprise banking applications.
- Designed and maintained a **microservices-based frontend architecture**, ensuring scalability and modularity.
- 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%**.

## 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 **AI-powered 3D experiences** using **Three.js** and **React Three Fiber**, enabling real-time visualizations.
- Integrated **ML services** for **dynamic 3D model animations** and **AI-driven model generation** from text and images.
- Developed secure authentication (Google, Apple, Discord) and **Stripe-based payment systems** for seamless transactions.
- Optimized performance with **pagination, caching strategies**, and scalable architecture.

### 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%**