

Mayank Raghuvanshi

CTO/Technical Lead — AI/ML, Full Stack, 3D/AR/VR

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Summary

CTO-level technologist with 6+ years architecting AI-driven, full-stack products end-to-end. Expert in AI/ML pipelines (TensorFlow, PyTorch), 3D optimization (Three.js, WebGL), AR/VR (WebXR, ARCore), serverless cloud architecture (AWS), and leading technical teams from concept to market delivery across healthcare, fintech, and emerging tech.

Experience

Yash Technologies — Senior Full Stack Engineer *Dec 2024 – Present*

Led SaaS architecture (50K+ users): AI/ML pipelines (TensorFlow, patient risk models), MLOps (SageMaker, model versioning), serverless microservices (Lambda), React/Redux, CI/CD (GitHub Actions, CloudWatch).

Vector3 Technologies — Full Stack Engineer *Aug 2024 – Oct 2024*

Built 3D/AR stack: Three.js/Babylon.js WebGL rendering, ARCore mobile integration, mesh compression LOD optimization, Lambda-based 3D asset serving, CloudFront CDN delivery.

Future IT Solutions — Full Stack Engineer *Dec 2023 – Aug 2024*

Optimized 3D product platform: Blender automation pipelines, PyTorch smart placement models, 30% perf gain via mesh optimization compression, multi-region CDN (CloudFront, S3), React 3D viewer.

Hexateron.IO — Frontend Engineer *Jan 2023 – Jan 2024*

Built interactive 3D dashboards: Plotly/D3.js analytics, Three.js 3D interfaces, WebGL optimization for complex scenes, client-side ML inference.

Trendy IT Solutions — Frontend Engineer → Associate Engineer *Aug 2019 – Jan 2023*

Promoted from intern; built BFSI platforms (Material-UI, Ant Design) for 50K+ fintech users; gained full product lifecycle experience.

Projects

AI Interior Design Platform — Text-to-3D/Image-to-3D (PyTorch), ML furniture placement, 3D asset pipelines (Blender), real-time AR/VR visualization (WebGL), serverless inference (SageMaker). *Tech:* React, Three.js, Babylon.js, PyTorch, AWS SageMaker, ARCore, WebXR.

MedPortal (HIPAA) — Patient risk prediction (TensorFlow), secure data flows (Cognito, Lambda, DynamoDB), CDN optimization. *Tech:* React, Redux, AWS, Node.js. [GitHub]

FinEdge — ML trend prediction (TensorFlow), real-time updates (WebSockets, SQS), D3.js visualization. *Tech:* React, GraphQL, AWS SageMaker. [GitHub]

ChatX — Sub-100ms WebSocket messaging (Lambda, CloudFront). [GitHub] **RogueStore** — Multi-vendor e-commerce with ML recommendations, Stripe, AWS SES. [GitHub]

Technical Skills

Frontend & 3D: React, Redux, Three.js, Babylon.js, WebGL, D3.js, TailwindCSS, Material-UI

Backend & APIs: Node.js, Express, REST/GraphQL, WebSockets, Microservices

AI/ML: TensorFlow, PyTorch, Model Serving, Computer Vision

3D/AR/VR: Asset Optimization, Blender, ARCore, ARKit, WebXR

Cloud & DevOps: AWS (SageMaker, Lambda, API Gateway, S3, DynamoDB, CloudWatch, CloudFront, SQS, Cognito), Docker, GitHub Actions, CI/CD

Databases: MongoDB, MySQL, DynamoDB, Vector Databases, Redis

Leadership: Product Lifecycle, Technical Vision, Agile, Team Leadership

Education

CSJMU — B.Tech Computer Science, 2018–2022 (Grade: 85%)

Tor Vergata University — Diploma Computer Science, 2020 (Grade: A)

Achievements

SAT "A" Grade (Math/Logic/English) • 98.9% Engineering Entrance (100% Scholarship Tor Vergata) •
"Top Performer" Trendy IT Solutions • Scaled system 3x, reduced infrastructure costs 25%

Publications

"Real-time Chat with WebSockets" (Journal of Modern Web Engineering) • "3D Asset Optimization for Web AR/VR" (Int'l Conference on 3D Computing) • "ML Model Serving at Scale" (Developer Community Magazine) — in progress.