

YASH VINAYAK SALUNKE

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EDUCATION

Johns Hopkins University, Baltimore, Maryland

Master of Science in Computer Science.

Aug 2024 – Present

GPA: 3.8/4

Related Coursework: NLP, Object Oriented, Intro to Algorithms, Deep Learning, Machine Learning.

KJ Somaiya College of Engineering, Mumbai, India

Bachelor of Technology in Computer Engineering, Honours in Data Science

Aug 2020 – May 2024

GPA: 9.33/10.0

Related Coursework: Data Structures, OOPS, Advanced Database, Algorithms Design, Cloud Computing.

PROFESSIONAL EXPERIENCE

CCC Intelligent Solutions, United States | iOS & Software Engineering Internship

Jun 2025 – Present

Role: Built Swift-based SDKs and cloud-integrated pipelines powering vehicle analytics and GenAI risk scoring.

- Developed a SwiftUI iOS app for 360° vehicle video capture, integrating Core Motion, GPS, and REST APIs for real-time analytics.
- Deployed on-device damage detection using AWS Bedrock, Java microservices, and MemoryDB, improving inference accuracy by 22%.
- Optimized frame extraction and streaming (2 FPS) pipelines via Dockerized services, reducing poor captures by 40% and improving ML data quality.

Johns Hopkins University, United States | Software Engineer (Part-Time)

Aug 2024 – Present

Role: Optimized backend, automated deployments, and improved database performance for scalability.

- Built and automated Azure CI/CD pipelines with GitHub Actions, cutting deployment time by 60% and improving uptime.
- Refactored backend APIs in Java and Python, enhancing caching and query efficiency; improved response latency by 50%.
- Tuned MongoDB/SQL indexing and implemented telemetry dashboards with Grafana, sustaining 99.9% uptime under load.

Nasdaq, India | Student Worker(Analyst)

Jan 2024 – Jun 2024

Role: Partnered with engineers and PMs to enhance software reliability and user engagement across financial systems.

- Validated and tested Java-based trading applications, reducing post-release defects by 20%.
- Analyzed market trends, partnering with PMs to define features, driving a 15% increase in user engagement.
- Managed SQL database workflows and contributed UI enhancements that improved user satisfaction by 25%.

Six Ladders Pvt Ltd., India | Software Developer Intern

Jun 2023 – Aug 2023

Role: Led a 3 member app development team, enhanced web UX, Web development, and Database Management.

- Built Node.js + React modules with AWS RDS backend, boosting performance and scalability by 30%.
- Refined SQL operations on AWS RDS, ensuring data integrity and reducing retrieval time by 40%.
- Designed and launched company website, enhancing user experience by 35%.

PUBLICATIONS

- [Integrating RFID and Sensor Technology for Enhanced Urban Vehicle Monitoring: A Path to Smarter, Safer Cities.](#)
- [Evaluating the Performance of Different Machine Learning Models for Metabolic Syndrome Prediction](#)

PROJECTS

Real-Time Options Chain – Real-time Market Analysis Engine

Aug 2023 – Aug 2023

2nd Prize Winner in Edelweiss Hackathon (Among 80+ Teams)

- Engineered a real-time market analysis tool using Angular, Java, and Node.js, integrating options trading strategies with IV and Greeks calculations to assist traders in data-driven decision-making..
- Optimized data processing efficiency by implementing caching and parallel computations, reducing response time by 40% and enabling seamless real-time insights.
- Designed a scalable backend architecture with WebSockets and REST APIs, ensuring real-time synchronization of trading data and enhancing user experience for 200+ traders.

Immunochain- Health Awareness App

Jan 2023 – May 2023

- Designed a gamified Android app via Flutter, leading a team of 4, integrating a chatbot for COVID-19 vaccine appointments, and ensuring efficient data handling through MongoDB Cloud.
- Built a Blockchain-powered QR vaccine tracker on MongoDB Cloud, ensuring credibility and tracking for 5,000+ users.

VoiceYourID - Attendance Management System

Feb 2020 – Mar 2020

- Curated a Speaker Dependent Voice Recognition Model (Accuracy 88%) in Python using Gaussian Mixture Models and Mel Frequency Cepstrum Coefficients for biometric authentication.
- Led introducing an IVR system featuring speaker recognition for secure authentication across landlines.
- Constructed an innovative Progressive Web Application (PWA) using React framework, integrated a Geofencing system to streamline location-based functionality to develop a smart attendance management system.

AWARDS & CERTIFICATIONS

Won Nasdaq Hackathon and secured 2nd place in Edelweiss Market Hackathon for developing impactful solutions.

SKILLS

Languages & Frameworks: Core Java (Advanced), Spring Boot, Angular, TypeScript, Node.js, HTML5/CSS3, REST APIs

Tools & Platforms: AWS, Azure, Docker, Jenkins, GitHub Actions, Xcode, Grafana, CI/CD Pipelines

Databases & Interests: Sybase, MySQL, MongoDB, Real-Time Systems, iOS Development, Data Pipelines