

Atharva Kulkarni

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SUMMARY

Full-stack software engineer with 1.5+ years of experience building production platforms from scratch with React.js, Node.js, and Java Spring Boot. Proven track record of improving system performance 3x, optimizing SQL/NoSQL databases, and deploying containerized microservices on AWS. Passionate about scalable architecture, and AI-driven feature integration to enhance user experience

EDUCATION

Syracuse University | Master of Science, Computer Science | (GPA: 3.67/4.0) **Aug 2023 - May 2025**
Courses: Data Mining, Object-Oriented Design (Java), Algorithms, Machine Learning

University of Mumbai | Bachelor of Eng., Computer Engineering | (GPA: 9.41/10) **Aug 2019 - Jun 2023**
Courses: Operating Systems, Distributed Systems, Data Structures, System Design, Computer Networks

WORK EXPERIENCE

Syracuse University - Software Engineering Intern **Syracuse (NY), USA | Jun 2025 - Present**

- Prototyped an AI-driven resume parser and job board with 70% parsing accuracy across 300+ test resumes using PDFMiner and spaCy for entity recognition like skills, experience
- Developed REST APIs in Node.js and designed PostgreSQL schemas to manage 1,000+ parsed records with JWT authentication and role-based access control
- Integrated a React.js interface with backend APIs that aggregated and displayed scraped online job postings, enabling real-time updates and smoother job search

Clutch Delivery LLC - Software Engineering Intern **Syracuse (NY), USA | May 2024 - Aug 2024**

- Increased platform engagement by 40% by developing full-stack web and mobile platforms with Figma, React.js, and TypeScript, enabling real-time updates and seamless user experience
- Cut backend latency from ~450 ms to 130 ms by optimizing Node.js APIs, refining MongoDB queries, and using Amazon S3 for static asset delivery
- Reduced release time by 70% by containerizing backend services with Docker and deploying on auto-scaled EC2 instances for scalable, reliable production environments
- Implemented a CI/CD pipeline with GitHub Actions to automate builds, tests, and deployments
- Lowered operational costs and delivery times by 20% with a new route-optimization algorithm scaling upto 500+ weekly orders

TCR Innovation - Full-Stack Web Developer Intern **Mumbai, India | Jan 2022 - Jul 2022**

- Boosted monthly bookings to 1,000+ by developing a responsive travel agency platform with React.js, Redux, and Tailwind CSS improving reservation flow and usability
- Doubled backend throughput by optimizing Node.js (Express) APIs, tuning PostgreSQL queries and indexes, and adding caching on high-traffic routes for faster responses

The Sparks Foundation - Web Development Intern **Mumbai, India | Jul 2021 - Dec 2021**

- Scaled a Java Spring Boot and PostgreSQL backend on AWS EC2, redesigning schemas to support 1,000+ concurrent users and handle 25% more transactions per second
- Reduced API failures by 20% by implementing secure, rate-limited REST endpoints with OAuth-based authentication, activity logging, and data validation to strengthen reliability

SKILLS

- **Programming Languages:** JavaScript, TypeScript, Python, Java, SQL, C#, C/C++, HTML/CSS
- **Frameworks:** React.js, Next.js, Node.js, Express, Spring Boot, Django, Flask, Jest, JUnit
- **Libraries:** Redux, Material UI, Tailwind CSS, Bootstrap, React Router, Numpy, Pandas, TensorFlow
- **Databases:** Microsoft SQL Server, MySQL, PostgreSQL, MongoDB, Firebase
- **Software & Tools:** Git, AWS (EC2, Lambda, S3), Docker, Stripe, Webpack, Postman, Jira, Agile, Vercel, SDLC, Slack, WebSocket

PROJECTS

Syracuse University Shuttle Tracker | Java, Spring Boot, Microsoft SQL Server, React.js, MVC

- Designed and deployed a real-time shuttle tracking system using WebSocket connections serving 120+ daily active students and processing 2500+ monthly requests, improving transportation efficiency
- Cut shuttle wait times by 30% by creating a dynamic drop-off algorithm and validating reliability through unit testing the API with JUnit, ensuring smoother scheduling

Skin Cancer Classification using CNN | Python, TensorFlow, Node.js, React.js, OpenAI

- Built a full-stack classification platform using a Convolutional Neural Network (CNN) with the HAM10000 dataset, achieving 85% prediction accuracy with OpenAI API to generate diagnostic insights
- Deployed the model via a Express.js backend and React.js interface using TensorFlow.js for real-time image analysis, ensuring secure on-device image processing across 500+ test cases