Atharva Kulkarni

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SUMMARY

Full-stack software engineer with production experience building 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**

University of Mumbai | **Bachelor of Eng., Computer Engineering** | (GPA: 9.41/10) **Aug 2019 - Jun 2023**

WORK EXPERIENCE

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

- Automated resume screening for 300+ graduating students by building an AI parser with spaCy NER and PDFMiner, reducing career center manual review workload by 75%
- Designed normalized PostgreSQL schema with 8+ relational tables to efficiently store parsed resume data, reducing query complexity and enabling sub-200ms API response times via Node.js
- Built React.js and Tailwind CSS job board aggregating 2,000+ postings from public APIs, delivering skill-based matching between opportunities and 500+ student profiles

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

- Increased daily active users by 40% by redesigning and developing customer, driver, and admin platforms in Figma and React.js, TypeScript, modernizing legacy interface with component-based architecture
- Reduced API response time by 71% (450ms to 130ms) by optimizing Node.js endpoints, implementing MongoDB query indexing, and offloading static assets to Amazon S3
- Eliminated 90% of deployment failures by containerizing services with Docker and implementing automated testing and deployment pipeline via GitHub Actions with rollback capabilities
- Architected event-driven AWS infrastructure with auto-scaled EC2 instances, Lambda for notifications, and SQS queues, supporting 500+ concurrent orders during peak hours

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

- Enabled 1,000+ monthly reservations by launching end-to-end travel booking platform with React.js and Redux, replacing static landing page with Stripe payments, and a responsive design
- Doubled backend throughput by optimizing Node.js (Express) APIs, tuning PostgreSQL queries and indexes, and adding caching on high-traffic routes for faster responses
- Implemented full-stack testing strategy with Jest and React Testing Library, achieving 82% code coverage and reducing post-deployment bugs by 50% through automated validation

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

- Improved banking platform performance by 55% by optimizing Java Spring Boot APIs and redesigning PostgreSQL schemas with indexing, supporting 1,200+ concurrent transactions
- Architected a secure authentication system with JWT-based sessions, timeout policies, and multi-layer validation for operations, ensuring reliability and compliance

SKILLS

- **Programming Languages:** Python, Java, JavaScript, TypeScript, SQL, 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