

# Anagha Dhekne

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Performance oriented Computer Science graduate with 3.5+ years of diverse experience in full-stack development, system architecture, testing strategies, and database management. Proficient in agile methodologies, delivering high-quality, scalable applications. Demonstrated expertise in designing and implementing innovative solutions that align with business goals. Seeking a Software Engineering role to leverage a proven track record in developing efficient, robust software in collaborative, fast-paced environments.

## EDUCATION

Master of Science in Computer Science   Syracuse University, NY – May 2024	3.67/4
Bachelor of Technology in Computer Engineering   MKSSS's Cummins COE, Pune – May 2020	3.89/4

## TECHNICAL PROFICIENCY

Languages & Databases	: Java, C/C++, JavaScript (ES6), Angular, Python, C#, SQL, MongoDB, R, PostgreSQL, MySQL Server
Methodologies	: Parallel/Threaded Programming, Agile, DevOps, CI/CD, Scrum, Software Development Lifecycle
Frameworks	: Spring Boot, Node.js, Express.js, React.js, Swagger, Maven, Flask, ETL, LLM, TensorFlow
Tools	: Eclipse, Jenkins, Visual Studio Code, Postman, Git, Bitbucket, Veracode, PowerBI, Confluence, JIRA
Certifications	: AWS Certified Cloud Practitioner, MongoDB Basics, Java, Machine Learning, Digital Marketing

## WORK EXPERIENCE

**Syracuse University, NY, US – Software Research Intern | Multithreading, Parallel Processing** Jul 2024 – Present

- Developed modular, high-performance Sudoku solver using smart pointers and lock-free data structures, achieving a 98% reduction in computation time, implementing C++17 features - thread, mutex, condition variables, locks and async for improved concurrency.
- Developed performance monitoring framework to track key metrics, reducing the solving time of a 25x25 puzzle from 374s to 6ms, while optimizing system architecture with load balancing and work distribution, achieving 98% CPU utilization across multiple cores.

**New York Air Brake, Watertown, US – Systems Test Intern | Python, SQL** Jun 2023 – Aug 2023

- Developed a RESTful microservice using Python Flask to process brake sensor data, ensuring 90% uptime through robust API design.
- Implemented data validation, error handling, and logging in Python, reducing sensor reading inconsistencies from 15% to below 2%.
- Optimized PostgreSQL queries and implemented indexing, significantly improving read performance for monitoring the Tableau dashboard through advanced query optimization and database tuning techniques.

**Citi Bank, Pune, India – Software Development Engineer | Spring Boot, JPA** Oct 2021 – Jul 2022

- Developed Spring Boot REST APIs for Audit and Portfolio services in Mutual Funds, ensuring seamless front-end integration.
- Implemented an event-driven architecture with Kafka consumers and CQRS to handle high-throughput financial transactions.
- Configured Elasticsearch and Kibana (ELK Stack) for centralized log aggregation and processing, enabling faster debugging and issue resolution thereby reducing downtime and improving system availability.
- Ensured API security using OAuth 2.0 and JWT authentication with Spring Security, improving data protection and compliance.
- Used Swagger for API versioning to improve collaboration between frontend and backend teams with up-to-date API specifications.
- Designed interactive UI designs with JavaScript and Angular, ensuring full adherence to the architecture blueprint and UI standards.
- Evaluated microservices to map and align UI elements with data models, documenting data workflows and system architecture.
- Collaborated with SMEs to align backend services with business requirements, ensuring optimal data flow and system integration.
- Integrated automated unit testing with Junit and Mockito to ensure code quality, achieving over 90% test coverage.

**Eaton Technologies, Pune, India – System Engineer | DevOps, CI/CD, QA, OOP, Agile** Oct 2020 – Oct 2021

- Developed an Automation Test Framework and core libraries for Advanced Metering Infrastructure (AMI) in C#, utilizing test-driven development (TDD) methodologies to achieve 100% test coverage compliance and reduce test execution time by 95%.
- Built a Python-based continuous deployment tool for AMI firmware, improving efficiency by 40% and supporting a DevOps pipeline.
- Integrated Selenium UI testing for web applications, increasing overall test coverage and reducing regression testing time.
- Led scrum events and conducted regular sprint demos for stakeholders, actively gathering feedback for continuous improvements.

**Eaton Technologies, Pune, India – Software Development Intern | React Native, iOS** May 2019 – Jul 2019

- Developed an enterprise-level IoT monitoring platform managing 500+ devices, integrating QR code scanning and geolocation services with React Native Camera and Google Maps API, achieving 85% uptime and improved scalability.
- Engineered a real-time visualization system using React Native, D3.js, and Chart.js, with advanced data aggregation for user insights.
- Implemented secure authentication with OAuth 2.0 utilizing Redux for state management, integrating Async Storage for persistent storage, and optimizing React components using memoization to enhance security, performance, and offline usability.
- Utilized an Express server with Node.js to create proxy, enabling frontend testing and reducing dependency on backend services.

**OneGo, Pune, India – Machine Learning Intern | TensorFlow, Keras, Scikit-learn** Aug 2019 – Apr 2019

- Developed and optimized a real-time video processing and emotion detection pipeline using Python, OpenCV, CNNs, and web technologies, achieving 65% accuracy in emotion detection while delivering an engaging and interactive user experience.