Shubh Desai

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EDUCATION

Master of Science, Computer Science   **January 2023 – Expected May 2025**
Khoury College of Computer Sciences, Northeastern University, Boston, MA   **GPA:** 4.00/4.00
- **Coursework:** Web Development, Algorithms, Machine Learning, Design Patterns, Database Management System, Cloud Computing, Machine Learning Operations

Bachelor of Engineering, Computer Engineering   **June 2017 - August 2021**
Gujarat Technological University, Surat, Gujarat, India   **GPA:** 9.18/10.00
- **Coursework:** Data Structure, Analysis and Design of Algorithms, Web Technology, Python Programming, Artificial Intelligence, Object Oriented Programming using JAVA and C++, Compiler Design, System Programming, Operating Systems

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Python, Java, C, C++, C#, PHP
Web Technologies and Frameworks: HTML / HTML5, CSS / CSS3, ReactJS / React, NodeJS, Spring Boot, Django, Flask
Databases and Testing: MySQL / SQL, MongoDB, Amazon RDS, Unit Testing, Cypress, Junit, pytest, Jest
Tools and Cloud Technology: AWS, Git, Jira, Agile, Jenkins, Elastic Search, MS Office, Postman, Docker, Kubernetes, Kafka

PROFESSIONAL EXPERIENCE

IpserLab LLC   **September 2024 - December 2024**
Software Engineering Intern
 Tech-stack: React.js, JavaScript, Java, Bandung, Rest APIs, PostgreSQL, GitHub, Redux
- Reduced 20% of client-side rendering by optimizing React.js components, state management and lazy loading
- Boosted 10% throughput of Java based REST API by implementing multithreading and asynchronous programming patterns
- Achieved 15% improvement in query execution through advanced query optimization techniques like indexing, partitioning

Northeastern University   **May 2024 – June 2024**
Software Engineering Teaching Assistant
- Mentored students in developing a collaborative tool like Google Sheets using software design principles and best practices
- Facilitated user requirement design and Test-Driven Development with TypeScript, React.js, and Java for robust applications
- Enhanced students' understanding of Object-Oriented Programming, promoting code modularity and reusability in their projects

Eurasian Infotech, Gujarat, India   **October 2021 - November 2022**
Junior Software Engineer
 Tech-stack: React.js, Java Script, Redux, Node.js, Express.js, MongoDB, Material UI, Rest APIs, JWT, CI/CD
- Achieved a 15% project improvement by optimizing rendering resulting in more engaging browsing interface
- Improved 10% of performance and scalability using Redis with MongoDB for data caching and retrieval, reducing response time
- Developed 40+ RESTful APIs with an average response time of 100ms resulting in smooth communication over the application
- Achieved 90% code coverage by implementing comprehensive unit testing and application testing
- Used Jenkins, Docker, and Kubernetes for seamless CI/CD, decreasing development time from 15 minutes to 5 minutes

Eurasian Infotech, Gujarat, India   **September 2019 - December 2019**
Full Stack Developer, Intern
 Tech-stack: PHP, HTML, CSS, MySQL, JavaScript, Bootstrap
- Developed a secure and feature-rich e-commerce platform for apparel sales and rentals using PHP Md5, PHP sha1 for security
- Utilized MySQL queries, triggers, and database normalization techniques to efficiently handle and store product data on platform

ACADEMIC PROJECTS

AutoSpace   **December 2024 – January 2025**
 Tech-stack: Next.js, NestJS, GraphQL, Prisma, Mapbox GL JS, Cloudinary, Stripe, Monorepo, Tailwind, Material UI, Docker
- Designed and integrated GraphQL API with Prisma and NestJS, optimizing backend for real-time parking and payment processing
- Developed a multi-role platform with Next.js, optimizing user's experience for customer, manager, admin, and wallet applications
- Integrated Stripe for secure payment, Mapbox GL JS for real-time directions to garages, and Cloudinary for efficient image uploads

Market Data Streaming   **March 2023 – April 2023**
 Tech-stack: Python, Amazon Web Services, Kafka, Flask, FAST API
- Leveraged Python, AWS, and Kafka to integrate Stock Market Data via Apache Kafka, fostering progressive data strategies
- Optimized Kafka producer-consumer communication, enabling real-time data consumption via Python scripting
- Deployed Apache Kafka on EC2 for scalable data streaming and engineered AWS-based data extraction with Glue

Zoom App   **June 2020 - August 2020**
 Tech-stack: Next.js, TypeScript, Clerk, GetStream, shadcn, Tailwind CSS
- Empowered seamless management for recording, live screen sharing, and personalized meeting through intuitive meeting controls
- Streamlined future meeting scheduling and meeting invitation, ensuring effortless access to upcoming discussions for users
- Managed past meeting archives, granting users seamless access to review historical data for informed decision-making