

Education

Northeastern University, Master's degree in Computer Science Relevant Courses: Web development, Program Design Paradigm, Natural Language Processing	Boston, Massachusetts Sep 2023 - Dec 2025 (Expected)
SRM Institute of Science and Technology, Bachelor's degree in Computer Science Relevant Courses: Data structures and algorithms, Artificial Intelligence, Object Oriented Programming, DBMS	India Jul 2019 - Jun 2023

Skills

Languages: Java, C++, Python, JavaScript, TypeScript, SQL, C#
Web Technologies: React, Node.js, Express.js, HTML, CSS, Redux, REST APIs, GraphQL
Databases & Cloud: MySQL, PostgreSQL, MongoDB, AWS, Docker, CI/CD
Core Competencies: Data Structures, Algorithms, OOP, System Design, Multi-threading, Agile, Git

Work Experience

IpserLab LLC Software Engineer Intern <ul style="list-style-type: none">Developed quiz creation platform enabling customizable assessments with multimedia support using ReactJS, Java, and PostgreSQL, serving 50+ beta testers across 3 educational institutionsAccelerated API response times 30% (800ms to 560ms) through JDBC connection pooling and query optimization, processing 200+ daily requestsImplemented leaderboards and analytics dashboards with Chart.js for real-time data visualization, tracking metrics for 15+ active quiz sessionsRestructured database schema and optimized 12 SQL queries reducing execution time 25% while supporting 50+ concurrent user sessionsEnhanced frontend accessibility achieving 95+ Lighthouse score and cross-platform compatibility by collaborating with UI/UX teams	Boston, MA, USA Jan 2025 - Jun 2025
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Northeastern University Graduate Teaching Assistant, Web Development <ul style="list-style-type: none">Instructed 60+ students in full-stack web development (React, Node.js, Express.js, MongoDB, HTML, CSS, JavaScript) through 12 structured tutorials and hands-on workshopsConducted code reviews of 200+ assignments with 10 hours weekly office hours, improving average assignment scores by 15%Managed Piazza course forum (200+ posts per semester) and collaborated with faculty using Agile methodologies, reducing unanswered queries by 40%Evaluated student projects using industry-standard software development practices, providing technical feedback on code quality and architecture	Boston, MA, USA Jun 2024 - Dec 2024
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Internship Studio Web-development Intern <ul style="list-style-type: none">Built and deployed full-stack e-commerce platform with 15+ UI components achieving 98% mobile responsiveness and cross-browser compatibilityEnhanced server performance through caching strategies, reducing page load time from 2.8s to 2.5s and improving Core Web Vitals scoresIntegrated MySQL database with normalized schema managing 10,000+ product listings across 8 tables with secure authentication	Remote, IN Jan 2022 - Mar 2022
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Projects

Image Processing & Enhancement Application <ul style="list-style-type: none">Architected Java-based image processing system inspired by Adobe Photoshop and GIMP, implementing 7 algorithms (blur, sharpen, sepia, greyscale, color correction, brightness, contrast) with MVC architecture across 25+ classes and 3,000+ lines of codeApplied 7 object-oriented design patterns (Adapter, Facade, Builder, Command, Decorator, Strategy, Visitor) reducing cyclomatic complexity by 35% and achieving 90% test coverage with JUnitEngineered multi-threaded system supporting 100+ concurrent operations across JPG, PNG, PPM formats, reducing average processing time by 20% (500ms to 400ms) per image)	Sept 2024 - Dec 2024
Kanbas React Web Application <ul style="list-style-type: none">Developed responsive educational platform inspired by Canvas LMS using React with 40+ reusable components and Redux for state management, reducing initial load time from 3.2s to 2.7s through code splitting and lazy loadingImplemented scalable component architecture with 85% code reusability across 2,000+ lines and 60+ files with consistent coding standardsBuilt Node.js backend with Express.js implementing 15 REST API endpoints, JWT authentication, and session management supporting 100+ concurrent users during load testing	Jan 2024 - Apr 2024
ECOM-VISION Admin Dashboard <ul style="list-style-type: none">Created data analytics dashboard for e-commerce operations using React, Material UI, and Nivo Charts, implementing 8 interactive visualizations and 12+ UI components for insights across 4 key business metricsRefined Redux Toolkit state management reducing unnecessary re-renders by 45% and improving Time to Interactive from 2.1s to 1.6sImplemented Node.js and MongoDB data processing pipeline with 6 tuned aggregation queries achieving 30% faster data retrieval (400ms to 280ms) average query time)	Jan 2024 - Mar 2024