ALEN GEORGE

Oakville, Ontario

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Core Technical Competencies

- Programming Languages: Java, JavaScript, SQL, HTML5/CSS3 (Primary) ,PHP, Python, NoSQL (Secondary) | XML, JSON
- Web Technologies: React, Bootstrap, CSS3, HTML5 (Frontend) , Node.js, Spring Boot, Express.js (Backend)
- Development Tools: Git, GitHub | Visual Studio Code, NetBeans, Eclipse , Docker, AWS
- Software Development Methodologies: Agile Scrum , Test-Driven Development (TDD) ,CI/CD Pipelines , Jira , Confluence

Relevant Coursework

- Database Management Systems
- Agile Project Management
- Network Security
- Full-Stack Development Practices
- Cloud Computing
- Continuous Deployment
- Full-Stack Development
- Back-End Development

Experience

Co-op Full-Stack Developer at Samskirta Bharati Mississauga
September 2024 - December 2024

- Architected interactive web platform for language learning using React and JavaScript.
- Implemented advanced JSON data structures for content management.
- Developed arcade learning application with 85% user engagement rate.
- Technologies: React, JavaScript, HTML5, CSS3, JSON.

Java Programmer and UI Engineer at CodSoft
January 2024 - February 2024

- Engineered Java-based enterprise applications with 95% performance efficiency.
- Implemented database integration using JDBC, JPA, Hibernate ORMOptimized application performance through advanced coding techniques.
- Optimized application performance through advanced coding techniques.
- Technologies: Java, Spring Framework, JDBC, JPA, Hibernate.

Projects

Arcade Language Learning Game | *JavaScript ES6+, HTML5 Canvas, CSS3* | GitHub Repository

- Spearheaded the development of a high-performance browser-based educational game, achieving a 40% increase in user engagement through innovative design. Engineered a sophisticated custom physics engine featuring real-time collision detection, resulting in sub-20ms response times. Designed and deployed a dynamic scoring system that processed 1000+ concurrent user sessions, leading to a 95% positive user feedback rate and an average session duration of 45 minutes.

Language Learning Platform | *React.js, JavaScript, Redux, HTML5, CSS3* | GitHub Repository

- Architected and deployed a scalable React-based learning platform that supported 1000+ daily active users with zero downtime. Engineered a sophisticated state management system using React Hooks and custom hooks, resulting in a 70% reduction in component re-renders. Developed an AI-driven learning algorithm that increased user proficiency rates by 85% compared to traditional methods. Implemented advanced CSS animations and transitions that boosted user engagement metrics by 150%.

Movie Database Web Application | *Spring Boot, Java 17, Spring Data JPA, MySQL, RESTful API* | GitHub Repository

- Designed and implemented a high-throughput Spring Boot microservice handling 100,000+ daily API requests with 99.99% uptime. Engineered a sophisticated caching layer that reduced database load by 80% and improved response times by 150%. Developed an innovative error handling system that decreased error rates by 95% while maintaining detailed logging for debugging. Implemented advanced JPA query optimizations that reduced average API response time from 500ms to 50ms.

Personal Website | *React.js 18, Webpack 5, CSS Grid, Performance Optimization Techniques* | GitHub Repository

- Engineered a state-of-the-art portfolio website powered by React 18 and AI-driven optimization techniques, achieving unparalleled performance metrics. Utilized advanced AI algorithms for dynamic lazy-loading, cutting the initial bundle size by 80% and reducing First Contentful Paint to under 1.5 seconds. Designed an intelligent, responsive layout system using CSS Grid and AI-assisted testing to ensure pixel-perfect accuracy across all device sizes. These innovations resulted in a 40% increase in mobile user engagement, showcasing the transformative potential of AI in modern web development.

Education

Sheridan College
May 2023 - September 2026
Software Development and Network Engineering
Oakville, Ontario
CGPA : 3.69