Harsh Dugar

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SUMMARY

Versatile Software Engineer with a solid foundation in software development in Backend development. Proven ability in project delivery, performance optimization, and cross-functional collaboration. Committed to innovation and continuous learning.

SKILLS

Programming Languages: C++, Python, C
Databases: Oracle, MySQL, MongoDB, PostgreSQL, AWS
Web Technologies: HTML, CSS, JavaScript, Express.js, Node.js
Cloud Computing: Amazon Web Services (AWS)
Technical Skills: Agile methodology, SDLC, Jira, Unix/Linux, Troubleshooting, Object-Oriented Programming

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EDUCATION

Seneca College, Toronto, ON   *Expected July 2025*
Advanced Diploma in Computer Programming and Analysis   *Cumulative GPA – 3.3*

Experience

AyutSoft Technologies Pvt Ltd | Software Developer Intern | Surat, India   May 2022 - Sept 2022

- Enhanced system performance by 30% through Microservices (APIs) optimization/development, employed Node.js, and AWS for scalable backend infrastructure, improving component communication and data processing efficiency.
- Led cross-functional collaboration for database structuring and optimization boosting data retrieval efficiency and enhancing system reliability.
- Innovated backend solutions to reduce dependency on third-party services, optimizing cost efficiency and system autonomy.
- Engaged in continuous learning, technology exploration, and code reviews integrating best practices to minimize application downtime and maintain system performance.

ACADEMIC PROJECTS

Lego Shopping Website – Web Development Project

- Developed a Node.js web application for managing Lego sets, integrating user authentication, databaseoperations, and dynamic content rendering.
- Implemented backend functionalities in Node.js and Express.js for data processing and user requests.
- Integrated MongoDB and PostgreSQL databases to optimize data management, combining the strengthsof NoSQL and SQL for a robust and scalable backend.
- Utilized dynamic routing in Express.js to create dynamic routes for displaying individual Lego sets,contributing to a seamless and dynamic user interface.
- **Technologies**: Node.js, Express.js, PostgreSQL, MongoDB, Tailwind CSS.

Delivery Management System - Software Testing project

- Developed and executed comprehensive test strategies for optimizing a Delivery Management System.
- Employed Agile methodology with Jira and Kanban for collaborative project management.
- Created diverse test cases (Unit, acceptance, integration) for holistic evaluation.
- Demonstrated strong teamwork to achieve project goals.
- **Technologies**: Jira, VS 2022, GitHub, Git

Library Management System – C++ using Object Oriented Programming

- Led the design and development of a C++ Library Management System with a focus on Object-OrientedProgramming.
- Maintained high coding standards and best practices for codebase quality.
- Integrated advanced OOP concepts like templates and virtual functions for system enhancement.
- Applied inheritance and polymorphism, fostering code reuse and flexibility within the LibraryManagement System, resulting in a dynamic and adaptable software solution.
- **Technologies**: C++, Oracle

Certifications:
- C++ Programming Beginner to Beyond (Udemy, Jan 2024)
- AICSM Python Programing (Govt. of India, Sept 2022)