

HARSH VAGHANI

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EDUCATION

Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science

Master of Science in Computer Science

Expected Dec 2024

Cumulative GPA: 3.71/4.00

Relevant Coursework: *Design and Analysis of Algorithms, Programming for the Web, Android Game Development, Software Design Patterns*

University of Mumbai

Bachelor of Science in Electronics and Communications

Mumbai, MH

October 2020

Relevant Coursework: *Structured Programming Approach using C, Object Oriented Programming Methodology, Database Management Systems*

TECHNICAL SKILLS

Languages: Java, Javascript, Typescript, Dart, SQL, HTML, CSS, C, C++, Python

Libraries and Frameworks: React JS, Node JS, Express JS, Next JS, Flutter, Spring Boot

Databases: MySQL, MongoDB, Google Firebase, Redis

Tools: Rest API, Graph QL, Kafka, RabbitMQ, Kubernetes, AWS, Git, Github, Postman, Docker, Kubernetes

Functional Skills: Software Development, Web and Mobile Development, Agile-Scrum, CI/CD

Certifications: Oracle Certified Associate Java SE 8 Programmer

PROFESSIONAL EXPERIENCE

Binghamton Tech Collective | Binghamton, NY

Jan 2024 - Present

Software Engineer

- Spearhead the development of cross-platform apps, enhancing the university experience for over 2,000 university students
- Optimize backend systems and APIs, reducing data retrieval and transmission times, enhancing overall app performance
- Collaborate with UI/UX engineers to design intuitive interfaces for Android and iOS using Flutter, achieving a 25% reduction in user onboarding time and improving user retention rates by 20%

Medallia - Etech Global Services | Gandhinagar, India

Jan 2021 - July 2023

Senior Analyst (Analyst II)

- Led the migration of legacy code to a SPA using React and TypeScript, enabling end users to customize features and reducing support tickets by 40%
- Enhanced Medallia's enterprise ETL platform (AutoImporter), reducing document import and processing time by 15% for professional services, solution architects, and customers
- Automated the deletion of unused replicated instances in production using Apache Kafka, optimizing resource allocation and saving over 1000 engineering hours
- Integrated acquisition products with Medallia Experience Cloud, enhancing platform capabilities and improving compatibility

PROJECT EXPERIENCE

ShopBing | Full Stack Developer

- Developed and integrated comprehensive data models and view models using Dart and MVVM architecture to provide a platform for the buying and selling of used/new products earning 300+ users in three weeks
- Spearheaded the development of key app features, including user profiles, chat and image uploads using Flutter, Dart and Firebase, demonstrating versatility and contributing to the overall success and user satisfaction of the marketplace platform
- Established security rules for Firebase, ensuring and maintaining high-security standards for the user data

Custom Phone Case | Independent Project

- Engineered a Next.js-based phone case ecommerce platform with dynamic image selection and real-time previews
- Integrated the shadcn library for effective handling of drag-and-drop functionality, showcasing proficiency in leveraging third-party tools to enhance application capabilities

Library Management System | Academic Project

- Architected a scalable MERN stack web application aimed at simulating the behavior of a theoretical library using TypeScript, ensuring type safety and maintainability
- Implemented user input validation with Zod, enhancing data integrity and security.
- Conducted thorough testing with Chai and Mocha, identifying and resolving issues early in the development process.