

Harshal Vaidya

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EDUCATION

Stevens Institute of Technology, Hoboken, NJ May 2023

Master of Science | Majors: Computer Science | GPA: 3.9/4

Courses: Web Programming 1 & 2, Databases, Algorithms, Big Data Technologies, Cybersecurity, Knowledge Discovery and Data Mining, Agile Methods, Python, Human Computer Interaction,

Vidyanidhi Infotech, Mumbai, India Feb 2018

Post Graduate Diploma | Majors: Advanced Computing

Courses: Algorithms & Data Structures, Databases, Java Technologies, Web Programming, JavaScript Framework

University of Mumbai, Mumbai, India May 2017

Bachelor of Engineering | Majors: Information Technology

Courses: Data structures, Algorithms, Databases, Object Oriented Programming, Web Programming, Data Mining, Cloud Computing, Big Data Analytics

SKILLS

- **Languages:** C, C++, Java, Python, PL/SQL | **Database:** MySQL, MongoDB, PostgreSQL, SQL, Oracle
- **Web Technologies:** JavaScript, Node.js, React, Redux, Redis, GraphQL, CSS3, Socket.IO

EXPERIENCE

3i-Infotech | Software Engineer Mar 2018 – Dec 2020

- Maintained optimal performance and achieved a 30% increase in order volume by addressing growing transaction volumes through regular scalability, capacity assessments and implementing order execution systems through design patterns, making necessary adjustments to Oracle and SQL queries, and enhancing code using C/C++
- Achieved 24.96% investment growth, reducing risks through diversified portfolios, recommended stock allocation, and regular performance reviews by developing subscription-based advisory portfolio service with C/C++ and SQL
- Improved profit and loss assessment by collecting and analyzing client investment data utilizing C/C++, SQL queries, Oracle and building an agent onboarding module resulting in 15% reduction in financial reporting errors
- Developed monitoring and alerting systems using shell script, resulting in a 50% decrease in critical system failures
- **Technologies:** C, C++, SQL, Oracle, PL/SQL, Shell Script

ACADEMIC PROJECTS

House of Books May 2022

- Improved page loading times and reduced load on server by employing Redis, integrated Redux to limit application complexity and developed search functionality enabling users to find books based on title, author, genre and ratings
- Set up Heroku and Netlify to automate and ensure a reliable, scalable hosting solution for application. Automated creation of an image applying GraphicsMagick with customizable text saving it as a PNG file in a specified directory
- Executed firebase for JWT based user authentication and seamless storage and data retrieval from NoSQL database
- **Technologies:** JavaScript, React, Node.js, MongoDB, Redux, Redis, GraphicsMagick, Heroku, Netlify, Firebase

Stevens Care April 2022

- Created a web app utilizing Node.js, Express, and MongoDB, enhancing patient access to virtual consultations, optimizing healthcare experience, and integrating real-time chat functionality with Socket.IO to facilitate instant communication between patients and healthcare providers, improving responsiveness and collaboration
- **Technologies:** JavaScript, Socket.IO, Node.js, Express, MongoDB, HTML

My Parking Assistant Nov 2021

- Implemented responsive and intuitive user interfaces (UI) making use of modern front-end technologies like HTML, CSS3, and JavaScript, creating a user-friendly experience across different devices and browsers
- Integrated geolocation services and mapping API to provide users with accurate location information, interactive maps for efficient parking spot selection and incorporated Nodemailer to send email notifications to users
- **Technologies:** JavaScript, Node.js, Express, MongoDB, HTML, Nodemailer, Google maps API(JS)

ACTIVITIES

Stevens Institute of Technology | Graduate Peer Leader, Graduate Student Life Aug 2022 – May 2023

- Provided mentorship, academic advice, and coordinated activities for graduate students, aiding in curriculum navigation, course selection, academic decision-making, and facilitating a smooth settlement on campus