Rohan Devasthale

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Available: January 2024 for Full Time

EDUCATION

Northeastern University, **Khoury College of Computer Sciences**, Boston, MA   December 2023
Candidate for Master of Science in Computer Science   GPA: 3.85/4.0
Related courses: Programming Design Paradigm, Algorithms, Fundamentals of Computer Networks, Database
Management Systems, Computer Systems, Scalable Distributed Systems, Natural Language Processing

University of Pune, Pune, India   May 2020
Bachelor of Engineering in Computer Engineering   GPA: 8.8/10
Related courses: Object Oriented Programming, Data Structures, Cloud Computing, Machine Learning, Computer
Networks, Artificial Intelligence and Robotics, Internet of Things, High Performance Computing

TECHNICAL KNOWLEDGE

Languages and Web Technologies: Java, Python, JavaScript, C, C++, Spring Boot, NodeJS, HTML5, CSS3, React
Databases and Tools: MySQL, MongoDB, Git, JIRA, IntelliJ Idea, GitHub, Postman, Qt, Docker

WORK EXPERIENCE

Perforce Software, Burlington, MA, USA   June 2023 – August 2023
Software Development Engineer Intern
- Developed an automated process in python to remove unused icons for p4v application, resulting in 2% reduction in memory usage.
- Improved icon rendering by replacing existing icons with SVG files, resolving jitter issues in application.
- Refactored C++ codebase to eliminate custom icon scaling and implemented pixel-density based scaling for enhanced visual consistency.
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Red Hat, Boston, MA, USA   May 2022 – December 2022
Software Engineer Intern
- Built python packages for ESI project as per PyPI conventions thereby cutting down installation time by half.
- Refactored the existing ESI code base to reduce unnecessary API calls and implemented threading to parallelize to improve application speed by 10%.
- Developed a script to generate usage reports for the project which provide key insights into scaling infrastructure and feature enhancement.
- Performed manual testing, wrote unit tests, fixed minor bugs and improved the documentation for the project.

Mortgage Kart Limited, Pune, India   July 2020 – June 2021
Software Engineer
- Developed a micro services architecture by following agile development process for company website using NodeJS and MongoDB thereby improving its efficiency by 30% and increasing footfall by 20%.
- Programmed an API currently leveraged by all mortgage advisors within the company that summarizes 20 most suitable mortgage deals for a customer, thus reducing manual time required for process by 50%.
- Designed 25+ complex MongoDB queries to process customer generated data, by scheduling a CRON job for KPI project and use it in business meetings to track progress of company.
- Trained 2 interns for software development tools and overall company's agile process along with handling CI/CD pipelines for deployment of micro services on GitLab.

ACADEMIC PROJECTS

Distributed Chat Application   January 2023 – April 2023
- Developed a decentralized distributed chat application in Java ensuring scalability and fault-tolerance.
- Leveraged technologies such as peer-to-peer communication, group communication, RMI, PAXOS and SQLite database for efficient and reliable data exchange and storage.

Homeless Shelter Management System   February 2022 – March 2022
- Designed and implemented a homeless shelter management system in Python and MySQL to track its members and related 5+ services providing key data insights, admin features and user friendly GUI.
- Developed 15+ complex database queries including stored procedures, triggers, functions and views.

INTERESTS & ACTIVITIES
- Teaching Assistant for Networks and Distributed Systems, Fundamentals of Computer Networks.
- Organized technical events for juniors, gave talks related to planning higher education and time management.