

Harshil Khara

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PROFESSIONAL EXPERIENCE

Software Engineer Intern, DC Infotech, Boston

May 2022 - Sep 2022

- Increased the engagement of prospective clients by 32% by building a chatbot for the website using NLP and web scraping techniques - developed with Flask, Python, React.js, MySQL, and Rasa
- Improved the performance of key actions on web applications by 99% by implementing in-memory caching in Java modules, in addition to reducing network calls leading to projected annual cost savings of \$16,000
- Reviewed and refactored existing systems for maintenance and performance improvements, wrote unit and integration tests to simplify troubleshooting, in addition to writing bash scripts for automating 72+ hours of manual work per year
- Employed best practices in Software Development Lifecycle (SDLC) combined with agile scrum methodology to effectively collaborate, track, and deliver projects on time
- Collaborated with Product Managers to identify minimum viable product requirements and defined feature sets into actionable user stories on Jira

Software Engineer, Aurionpro, Mumbai

Mar 2020 - Sep 2021

- Designed and developed the timesheet web page of an employee management portal for a company with 10k+ employees - by hosting the Node.js web app on AWS EC2, utilizing RDS for PostgreSQL and S3 for storing data, and API Gateway and Lambda functions for implementing business logic
 - Improved the file upload and download speeds by 86% for Fortune 500 clients by developing a compression algorithm using Java to compress PDF files up to 10% of their original size
 - Optimized keyword search performance by 90% by developing a Lucene search engine using Java and XML parsing
 - Constructed a POC data warehouse to inform business decisions by consolidating 20M+ data points from 5 data sources - by building an ETL pipeline using Apache Airflow, Docker, Python, and PostgreSQL
 - Improved the scalability and performance of web applications by configuring Elastic Load Balancers with EC2 Auto Scaling to evenly distribute incoming traffic across EC2 server instances
 - Collaborated with cross-functional teams to understand business requirements and design UI/UX
 - Presented project metrics and KPIs to key stakeholders and maintained documentation on Confluence
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EDUCATION

Master of Science, Computer Science

Sep 2021 - Jan 2023

Boston University, Boston, USA

GPA: 3.50/4.0

- **Coursework:** Data Structures & Algorithms, Artificial Intelligence, Data Science, Data Mining, Web Analytics & Mining, Software Engineering, Advanced Programming Techniques, Advanced Database Management

Bachelor of Engineering, Information Technology

Jul 2016 - Jul 2021

University of Mumbai, Mumbai, India

- **Coursework:** Computer Architecture, Database Management System, Operating Systems (Linux, MacOS, Windows), Mobile Application Development (Android, iOS), Business Intelligence, Software Project Management
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TECHNICAL SKILLS

- **Languages:** Java, Python, JavaScript, SQL, C++, C#, Bash, PHP, HTML5, CSS3, XML
 - **Frameworks & Tools:** AWS, React.js, Angular.js, Node.js, PostgreSQL, MySQL, Flask, Redux, MongoDB, Redis, ElastiCache, Docker, Kubernetes, Apache Spark, Airflow, PySpark, Pandas, TensorFlow, MS SQL Server, .NET, Jenkins, Maven, Gradle, Jira
 - **Skills:** Object-oriented programming (OOP), System Design, Full Stack Web Development, Cloud Computing, ETL, CI/CD, Product Management, Software as a Service (SaaS), Platform as a Service (PaaS)
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ACHIEVEMENTS

- BostonHacks 2021: 3rd Prize for predicting insurance claims with an accuracy of 82% by analyzing historical insurance claim datasets and developing multiple classifiers like KNN, Decision Tree, Random Forest, and SVM
 - College Soccer Championship 2019: Captained the winning team of college soccer championship
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INTERESTS

Chess, Fitness, FC Barcelona (Soccer), Macroeconomics, Cooking, Reading, Traveling