

Hrithik Nanasaheb Bagane

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EDUCATION

Master of Science, Software Engineering

Aug 2023 - May 2025

San Jose State University, San Jose, CA

- Relevant Coursework - Distributed Systems, Database Principles, Software Systems Engineering

Bachelor of Technology, Computer Science

Aug 2017 - May 2021

Vishwakarma University, Pune, India

- Relevant Coursework - Data Structures, Algorithms, Machine Learning, Artificial Intelligence, Software Engineering

SKILLS

- Java | Python | C | C++ | R | JavaScript | TypeScript (**Languages**) Spring boot | Git | Flask | Quasar | JUnit (**Frameworks**)
- Angular | React | Vue.js | Node.js | HTML | CSS (**Web & App tools**) SQL | MongoDB | Firebase (**Database**)
- Jenkins | Docker | Kubernetes | CI/CD (**DevOps Tools & Technologies**) AWS | GCP (**Cloud Services Platform**)
- Microservices | Distributed Systems | Data Structures | Frontend | Backend | Full-Stack | Agile | Cucumber | TestNG

WORK EXPERIENCE

Software Engineer, Barclays, Pune, India

Nov 2022 - Jun 2023

- Developed a web application using AngularJS and Spring Boot, integrated with Apache Kafka for real-time data streaming, achieving a 56% reduction in time and effort required to start/stop 26 internal payment services with just one-click.
- Implemented a Java (Spring) and PostgreSQL automation test framework with Gherkin, reducing manual testing time by 47% and boosting test reliability for the team.
- Validated software reliability and stability by executing seamless and robust end-to-end automation tests utilizing TestNG, Selenium, and Cucumber, ensuring high-quality and dependable software systems.

Associate Software Engineer, NICE Actimize, Pune, India

Jul 2021 - Nov 2022

- Automated the generation of model performance statistics and charts through Python scripts, resulting in a reduction of over 90% in routine performance calculation time from a day to under an hour and eliminating manual errors.
- Created impactful data dashboards using Python, SQL, and Excel, facilitating data-informed decision-making by presenting actionable insights to senior management and achieving a 10% reduction in operational costs.
- Accomplished data-driven optimization by calculating model stability, establishing relevant KPIs, and investigating adhoc issues, contributing to improved performance by 56%.

Software Development Intern, Incentius, Pune, India

Feb 2021 - May 2021

- Constructed a scalable and responsive end-to-end web application ([link](#)) using Vue.js, Quasar, Python, Flask, and SQL, enabling individuals to contribute to society's well-being through Credit/Debit card rewards.
- Integrated Apache ECharts for dynamic data visualization, enhancing user experience with advanced features such as data transformation, filtering, clustering, and regression analysis.
- Collaborated with cross-functional teams to ensure seamless integration, scalability, and optimal performance, leading to a responsive web environment.

Product Development Intern, SAP i360 Innovation Lab, Pune, India

Aug 2019 - Jan 2020

- Spearheaded development of digital hospitality system through proof-of-concept implementation of virtual assistant.
- Managed a cross-functional team of 6 members to develop product requirements and specifications within time.
- Utilized Dialogue flow NLP agent and BERT-based NLU Model and performed content-based recommendation.

PROJECT EXPERIENCE

Movie Theater Club: MongoDB, React, Redux, Node.js, and AWS ([link](#))

- Developed an end-to-end multiplex management application featuring intuitive user interface (UI) seamlessly integrated with REST APIs and implementing robust authentication and authorization mechanisms.
- Successfully deployed the system on AWS with an Auto scaled EC2 cluster and Load Balancer, adhering to Agile principles and maintaining Scrum artifacts, including burndown charts and task boards.

PATENT AND RESEARCH PUBLICATIONS

- Patent: System and Process for Digital and Automated Hospitality, Application Number: 201921046385
- Publication: Health Emergency System with Smart Traffic Management, [IRJET](#)

ACHIEVEMENTS

- Pitched product idea to 150+ CEOs and entrepreneurs at ZEE Business Dare to Dream Awards 2019, televised live.
- IBM Technical Paper Presentation on Amazon Go, 1st runner up among 40 teams.
- Led college junior coding bootcamp, teaching programming fundamentals, inspiring web development interest.