

# YASH AMBIKE

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## Education

### Northeastern University

*Master of Science in Informatics*

**Expected - July 2024**

*Boston, MA*

### Pune University

*Bachelor of Computer Engineering*

**May 2013 - June 2017**

*Pune, IN*

## Experience

### MBTA

*Senior Project Intern*

**July 2023 - December 2023**

*Boston, MA*

- Managed Python application development to automate bridge inspection data reporting. Built an efficient system using MySQL, Flask, and Python, allowing seamless Excel import and web-based record display
- Integrated Spacy and NLTK using NLP libraries to improve search capabilities. Achieved an 80% enhancement in data retrieval efficiency, making it easier for users to locate records
- Deployed the application on AWS EC2 for scalable user access. Reduced manual data handling efforts by 50% and automated reporting processes, resulting in a 40% time-saving for the civil department

### Cognizant

*Senior Software Developer*

**August 2021 - September 2022**

*Pune, IN*

- Led the development of the Risk Fulfillment Platform for the credit card department at American Express, employing Java, Spring Boot, SonarQube, Microservices, Couchbase Server, Confluence, and Postman
- Implemented features to upgrade credit card user data, analyzing and identifying the percentage of defaulted users
- Conducted mock tests across 5 simultaneous projects using Junit and Mockito, ensuring error-free system functionality validation in Postman
- Contributed in code review meetings to ensure code correctness, resulting in a 95% accuracy rate before deployment to QA. Employed Jenkins for CI/CD processes, achieving a 30% reduction in deployment time from QA to production

### Intelligent Machines Lab

*Associate Software Developer*

**June 2018 - August 2021**

*Pune, IN*

- Pioneered the development of a cancer patient management app, implementing the Dijkstra algorithm to reduce waiting times by 20%, optimizing patient flow and enhancing healthcare efficiency
- Conceived and engineered the real-estate application from scratch, showcasing proficiency in full-stack development with Spring Boot, Angular 9 and MySQL. Attracted over 10,000 users through property listings and accurate return predictions
- Enhanced application security by 40% across all projects in the company, incorporating Spring Security and implementing two-factor authentication

## Projects

### Analyzing Vaccine Availability Strategies | SQL, Power BI

**November 2022**

- Crafted 10 comprehensive database tables for organizing COVID-19 vaccine data using SQL
- Utilized Power BI to enhance data communication efficiency by 40%, improving data visualization and reporting

### Data Driven Chocolate Production Analytics | R, Power BI

**December 2022**

- Executed data cleaning, analysis, and visualization on a dataset of 25,000 rows using R libraries
- Used R libraries to transform raw data, cutting data analysis time by 30% and improving visualization in Power BI

### Raspberry Pi based Private Cloud Infrastructure | Java, SQL

**May 2017**

- Supervised a team of 4 in designing and setting up a private cloud storage server using Raspberry Pi
- Optimized Raspberry Pi memory usage and distributed storage, achieving a 25% reduction in memory consumption

## Technical Skills

**Languages/Frameworks:** Java, J2EE, Python, Angular, JavaScript, Flask, Spring Boot, Kafka, Bootstrap, Microservices, WordPress, AWS

**Databases:** SQL, MySQL, PostgreSQL

**Developer Tools:** Maven, Gradle, Hibernate, JUnit, Mockito, SonarQube, JSON, XML, Bugzilla, Jira, Confluence, Git, Postman, Tableau, Power BI, Jenkins

**Others:** RESTful Web Services, HTML, CSS, Material UI, IntelliJ, Visual Studio Code, Microsoft Office, Linux