Aishwarya Venkatesh

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Education

M.S. Computer Science, Jun 2024
Santa Clara University
GPA - 3.88/4
Courses : Design and Analysis of Algorithms, Distributed Systems, Database Systems, Machine Learning, Advanced Operating Systems, Computer Architecture, Advanced Web Programming, Object Oriented Analysis and Design, Cloud Computing*

B.S. Information Technology, April 2018
St.Joseph's College of Engineering, Anna University, India
GPA - 8.48/10
Select Courses: Data Structures, Object-Oriented Programming, Database Management Systems, Design and Analysis of Algorithms, Web Programming, Mobile App Development, Operating Systems

Experience

Santa Clara University (Jan 2023 - Mar 2023)
Grader

- Worked as a Grader in Distributed Systems and responsible for providing feedback on assignments, projects and exams.

Mindtree Ltd (June 2018 - Feb 2021)
Software Engineer

Client: Avis Budget Group – ABG is a leading global provider of mobility solutions, operating three of the most recognized brands in the industry through Avis, Budget and Zipcar.

- Designed, developed and managed operational processes for tasks including creating, modifying, and canceling reservations, catering to both guest users and preferred account holders enjoying associated benefits.
- Successfully forged a link between the SNCF train website and the ABG website, streamlining the process of booking car rentals upon the user's completion of their train reservation. This integration led to a notable **50% boost in car rental reservations through ABG France**.
- Enhanced the platform by introducing support for various new features, including flexible pickup times, discounted pricing options, complimentary extras, and exclusive membership benefits. As a result, our **customer retention rate experienced a significant increase of 30%**.
- Served as the leader of a 3-member team, adhering to **Agile** methodologies with **JIRA** as our tool of choice. Maintained a strong collaborative relationship with clients to collect requirements, foster adoption, and effectively address and resolve critical issues.
- **Technologies used**: JAVA 7, Collections, Spring, Hibernate, JAX-RS, MySQL, Open Jaw, Junit, Mockito. Third Party API: Tempest Microservice

Technical Skills

- **Languages**: C, C++, Java, Python, PHP, Ruby, CUDA
- **Framework**: Spring Boot, SpringMVC, JDBC, RESTful Web services, Hibernate, Junit, Mockito, Ruby on Rails
- **Web**: HTML, CSS, BootStrap, JavaScript, Angular, ReactJS
- **Tools**: Linux, JIRA, TortoiseSVN, Git, Maven, Win-SCP, SonarQube, Docker, Postman
- **Database**: MySQL, Oracle, PL/SQL

Select Academic Projects

Airline reservation system (Fullstack)

- Developed an airline reservation system encompassing flight search/booking with seat selection, secure payment processing, and reservation management.
- Implemented an admin panel for staff to oversee flights, reservations, and customer support. Authenticated users' access to the portal using OAuth.
- **Technologies used**: SpringBoot (JAVA), ReactJS, MySQL, Postman.

Publish-Subscribe System using Docker

- Developed a Publish-Subscribe system where users may subscribe to events they are interested in and receive notifications of events that a group of publishers publish.
- Implemented a CI pipeline in Docker to automate the process of integrating code changes while upholding stringent code quality standards.
- **Technologies used**: For designing the user interface, HTML, CSS, JavaScript and jQuery were used. Both the server and the client side of the project were designed with Python. The application was implemented using Docker.

Record maintenance system for repairs and maintenance

- Implemented a record maintenance system using PHP and Oracle DB to create and maintain service contracts, repairs and generate revenue metrics.
- **Technologies used**: jQuery, AJAX, HTML were used to build the frontend interface. PL/SQL was used in the backend to perform database operations.

Heart disease prediction with machine learning

- Predicted the likelihood of heart disease using various machine learning algorithms such as Logisitic regression, K-nearest neighbors classifier, Support vector machine and Decision tree classifier.
- Heart Disease dataset from UCI repository was used for training and testing. Our proprietary logistic regression algorithm had an **accuracy of 93%**. **Technologies used**: Python, Scikit.

Operating Systems

- Implemented various scheduling (FCFS, SJF, SRT, RR, HPF), page replacement (FIFO, LRU, LFU, MFU, Random) and disk scheduling (FCFS, SSTF, SCAN, LOOK) algorithms. **Technologies used**: C.