

Rishabh Sawa

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EDUCATION

Master of Science in Computer Science

Aug 2021 – May 2023

University of Maryland, Baltimore County

GPA: 3.6 / 4.0

Coursework: Machine Learning, Data Visualization, Design and Analysis of Algorithms, Advanced Operating Systems, Project Management Leadership and Communication

Bachelor of Engineering in Computer Science and Engineering

Sep 2014 – Aug 2018

B.M.S. College of Engineering

GPA: 3.5 / 4.0

Coursework: Big Data and Analytics, Data Structures, Object-Oriented Modeling and Design, Artificial Intelligence

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C++, JavaScript, HTML, CSS
- **Frameworks & Tools:** React, NodeJS, ExpressJS, Angular, Flask, Docker, Cloud Foundry, Amazon Web Services (S3, EC2, SageMaker), Django, Bootstrap, Git, FireBase, Jira, Jenkins, Maven, Tableau, PowerBI, Heroku, Postman
- **Databases:** MySQL, MongoDB, PostgreSQL
- **Libraries:** Scikit-learn, Redux, PyTorch, Pandas
- **Others** - Agile/Scrum, CI/CD, Test-driven development, Web Development, Mobile Application Development (Android)

WORK EXPERIENCE

Software Engineer | SAP LABS | Bangalore, IN

July 2019 – Aug 2021

- Led a team of developers for developing core enterprise applications while working as a Full Stack Engineer in a framework team.
- Collaborated with the Innovation team to create a part of Fiori 3 analytical features, leading to a significant increase in customer base.
- Built a UI application templating framework, providing users convenience to generate enterprise applications 70% faster than freestyle app creation.
- Introduced systematic creation of web plugins, allowing users to create and manage applications on cloud, thereby saving time and effort by roughly 20%.
- Developed REST API service to generate mock annotations to test edge case scenarios, reducing incoming issues by 14%.

Software Developer Associate | SAP LABS | Bangalore, IN

July 2018 – June 2019

- Resolved performance-related issues in framework, resulting in a 6% reduction in stack call time.
- Automated manual test effort with selenium-based Integration Tests (One Page Acceptance tests) for Fiori Elements - Overview Page, improving product release life cycle time by 10% and increasing test coverage by 30%.
- Collaborated with cross-functional teams of engineers and quality experts to design a fault detection system, communicating research findings and recommendations to senior management and stakeholders through clear and concise written and verbal presentations.

Developer Intern | SAP ARIBA | Bangalore, IN

Jan 2018 – July 2018

- Coordinated with an ongoing R&D project on Analytics of Guided Buying, having a direct impact on user experience, allowing the organization to recognize customer buying patterns and save resources by 5%.
- Performed root cause analysis on integration issues in the SAP Ariba buyer's team to enhance performance of the contracting platform by 12%.

PROJECTS

Classification and Comparison of Malignancy Detection of Cervical Cells

- Classified microscopic images of uterine cervix based on nucleus and textural features. Trained SVM model on GLCM extracted textural features and boosted performance of benchmark model by 13%. Created an API for Querying specific results.

Residual Network Experimentation with different number of layers

- Analyzed ResNet architecture for image classification with CIFAR-10 dataset using 4 types of ResNet architectures: ResNet-18, ResNet-34, ResNet-50 and ResNet-101. It concluded with ResNet50 being optimal for CIFAR-10 dataset when it comes to bottle-neck with an accuracy of 98.01%.

YOU-FIT Android Application

- Developed a fitness application with android studio. Google Firebase was employed for user authentication and can handle 200,000 users concurrently. Application enables users to log in, set up exercises and diet, and tracking features to track user progress.

Centralized Multi-User Concurrent Bank Account Manager System

- Built a server, for concurrent transaction operations by multiple users. Implemented multi-threading to maintain concurrency and synchronous transaction processes between clients and server using POSIX threads, condition variables, and mutex locks.

AWARDS

- Received Appreciation Award for Q3 2020 by Project Manager & VP, UX Engineering India to recognize work done as a role model for commitment & innovation while being part of SAP UX Engineering.
- Won Test Engineering Hackathon 2019 organized by SAP Labs. Filed a patent (US and India) for research in Metadata driven technologies.