VISHAL SARDA

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PROFESSIONAL EXPERIENCE

AMAZON WEB SERVICES, Software Engineer   *Bellevue, USA*   *August 2022 - Present*
- Part of the User Insights Services Personalization (UIS) team at Amazon Web Services (AWS) under AWS Console Platform division. UIS is an internal service that harnesses Machine Learning to enable service teams to deliver personalized experiences to Console users.
- Thoroughly investigated the reasons for missing data attributes in the requests served by UIS to various AWS Console teams.
- Designed and implemented data backfill workflow from sratch using Native AWS technologies to address data inconsistency. This workflow is expected to largely improve data quality and also help uncover problematic data from the upstream service.
- Actively participated in code reviews and design discussions. Also contributed to the Opensearch open source projects at AWS.

MICROSOFT, *Software Engineer*   *Redmond, USA*   *March 2021 – August 2022*
- Part of the Integrations team at Whiteboard that integrates Whiteboard with Microsoft Teams having 270M+ monthly active users.
- Designed and implemented proof token, owner-only edit mode in Typescript, enabling external users to edit meeting whiteboards.
- Mitigated privacy concerns for gov tenants through low-latency Microsoft Fluid framework for Whiteboard tab app backend storage.
- Mentored interns twice to enhance Whiteboard functionalities within Teams. These include building a personal app which enables users to access all boards in the app, generating user notifications when a board is shared in a meeting, pasting board link in meeting chat.
- Actively participated in code reviews, design discussions, interview loops and mentoring new hires. Promoted writing high quality code with documentation and unit tests within the org. Increased diversity and inclusion awareness at Whiteboard as a member of D&I team.

MICROSOFT, *Software Engineering Intern*   *Redmond, USA*   *May 2020 – Aug 2020*
- Created a Whiteboard tab application using C# and Typescript for Microsoft Teams.This application led to ~10% increase in Microsoft Whiteboard usage at schools and organizations for asynchronous collaboration during Covid-19.

PAYSAFE, *Software Engineer*   *Hyderabad, India*   *Oct 2018 – July 2019*
- *Merchant Management:* Single-handedly conceptualised and built an entire user management workflow for the Unity Business Portal in Java using MySQL that included stages starting from first time login, change/forgot password for new merchants.
- *Merchant Onboarding:* Improved the identity access management workflow by providing the functionality to assign pre-defined , custom roles and permissions to the users so that agents can onboard new merchants without any hassle and in very less time.
- Proactively provided product improvement suggestions and implemented various new features such as graphical representation of Authorization and Transactions, transaction drill-down and user favourites using Java, Kafka, MapR, Highcharts and AngularJS.

D.E. SHAW, *Software Engineer*   *Hyderabad, India*   *July 2016 – Sept 2018*
  ATS – Application Tracking System
- *Application Management System (AMS):* Worked on building the AMS as a part of the new ATS at the firm with a 50% decrease in the page load time through dynamic page loading using Java, MySQL, ReactJS which improved the overall job applicant experience.
- *Recruitment Management System (RMS):* Built the Interview Scheduling and Candidate Pipeline tools for the new RMS using Java, MySQ, ReactJS and Struts framework. These tools significantly reduced the manual effort involved in the entire candidate hiring cycle thus helping the Human Capital team to screen candidates in an organised manner and speed up the hiring process.

  Payroll Workbench
- Automated various processes such as Deferred Compensation management, Payroll Reconciliation and Employee Contribution by building user interactive workflows and gadgets using Java, MySQL, DPortal, Javascript, Slickgrids, MyBatis and ReactJS.
- Solved high-priority issues with extremely low turn-around time during on-call shifts. Mentored new hires in the team.

ALGOANALYTICS, *Research Project Intern*   *Pune, India*   *Dec 2015 – May 2016*
- Implemented an open-source **classifier** in R to classify patients suffering from brain disorders like Schizophrenia and Dementia.
- Achieved an accuracy of 92% (Schizophrenia, 119,748 test cases, 2nd best in Kaggle) and 98% (Dementia, 336 total cases) using this binary classification tool by using SVM, Neural Networks and many other algorithms ensembled into one after feature selection.
- Combined Caret (R), Weka (Java) and Scikit Learn (Python) in one package to efficiently use the models as per the preference.

ADP, *Software Development Intern*   *Pune, India*   *May 2015 – July 2015*
- Built a web application for Hiring Managers for tracking open positions at the firm as well as various candidacy stages like Resume Review, Resume Screening, Interviewed, etc in the form of dashboards and intuitive pie charts using Java and AngularJS.

TECHNICAL SKILLS
Programming Languages: Java, C++, C, C#, Python, R, SQL, Typescript, Javascript , HTML/CSS
Frameworks and Libraries: REST, Native AWS, Maven, Spring, AngularJS, React, Tensorflow, scikit-learn, Kafka, JIRA, GIT, Swagger

EDUCATION
Stony Brook University   *Master of Science, Computer Science*   *New York, USA*
CGPA- 3.79/4.0   *Dec 2020*
Coursework: Analysis of Algorithms, Theory of Databases, Probability and Statistics for Data Scientists, Data Science Fundamentals, Introduction to Modern Cryptography, Human Computer Interaction, Smart Energy in the Information Age

College of Engineering Pune   *Bachelor of Technology, Computer Engineering*   *Pune, India*
CGPA- 8.44/10.0   *May 2016*
Coursework: Data Structures, Operating Systems, Software Engineering, Database Management System, Storage and Virtualisation, System Programming, Computer Networks, Graph Theory, Compiler Construction, Data Communication, Microprocessor Techniques