Sai Deshmukh

+1 737-203-4443 | sgdeshmukh@scu.edu | linkedin.com/in/saideshmukhh16 | github.com/saeedeshmukhh

Experience

Full Stack Engineering Senior Analyst Dec 2021 – Jul 2024
Accenture *Pune, MH, India*

- Ensure all customer support cases logged receive appropriate attention and urgency, including tracking of defect resolution in line with customer program timelines.
- Coordinate Customer-specific communication plans, test schedules, releases, and ticket priorities, etc., between Customers and internal and external stakeholders.
- Worked on analyzing and fixing production defects with minimal response time.
- Built an entire independent out of box functionality to customize state specific insurance rating requirements along with the front-end UI UX for it with CSS and React.js
- In-depth involvement in unit testing and defect resolution processes during the pre-prod development showcasing great analytical , problem solving debugging skills.
- Wrote XML-based configurations and integrated backend APIs for seamless data exchange with third party services to obtain Transunion scores, LexisNexis property data, medical scores. Etc.
- Proactively drive the daily stand-up meetings and active participation in Scrum calls to accurately estimate story pointers and scope of implementation.
- Worked on Impact Analysis documents and developing product support documentations.
- Automated the fix to the issue refunds of canceled policies which reduced the incident count to reduce by approximately 20 less incidents per week.

Full Stack Engineering Analyst Dec 2020 – Nov 2021
Accenture *Pune, MH, India*

- Worked as a Web Content developer for a leading Insurance Company with Line of Business in Property and Casualty - Home and Auto Insurance during the entire Software Development Life Cycle.
- Configured Duck Creek Policy Administration module to support dynamic rating and underwriting workflows.C configuration as duckcreek is a .net Built framework.
- Hands-on experience on various debug tools like trace monitors, Utility Center, Data testers etc. to debug and fix defects in production environment.
- Flexibly worked in multiple teams within the project showcasing high transitioning abilities and quick learning.
- Developed API Scripts for unit testing functionalities at low level.
- Facilitate Knowledge Transfer sessions for new project team members for easy transitioning into the team.
- Collaborated with cross-functional teams to gather requirements, design solutions, and implement Policy and Billing systems.
- Worked with project management tools such as Rally, Service Now, Confluence.

Software Engineering Intern June 2019 – August 2019
Coupa Software *Pune, MH, India*

- Team - Cloud Operations - Site Reliability Engineering Team
- Collaborated with fellow interns to build an Automated Framework to make Deployment Server checks to validate Server Readiness before and After Stack Upgrades Investigating Issues with the deployments or customer instances
- Learned and worked on technologies like AWS, Linux, Shell Scripting, open source like Chef.io, flask
- Experience working with management tools such as Jira, Confluence

Education

Santa Clara University Santa Clara, CA
Master of Science in Computer Science and Engineering, GPA: 3.79/4 *Sep 2024 – Present*
Courses - Design and Analysis of Algorithms, Computer Architecture, Database Systems, Object Oriented Analysis Design and Programming , Design Patterns, Machine Learning

Cummins College Of Engineering for Women Pune, MH, India
Bachelor of Technology in Electronics and Telecommunication, GPA: 7.81/10 *Aug 2016 – May 2020*
Relevant Courses - System Programming and Operating Systems, Object Oriented Programming, Data Structures and Algorithms, Fundamentals of Programming Language, Artificial Intelligence

Projects

MilkMate – Local Milk Delivery Optimization | *Java, Node.js, Spring Boot, Expo, React Native* Apr 2025 – Jun 2025

- Designed and developed MilkMate, a mobile app to digitize traditional milk delivery services in India, enabling efficient order tracking, billing, and communication for milkmen and customers.
- Implemented 18 classical design patterns (3 Creational, 6 Structural, 9 Behavioral) to ensure scalability, maintainability, and clean code architecture.
- Developed robust modules for user authentication, order processing, real-time delivery updates, and admin dashboards with a focus on modularity and separation of concerns
- Git Repo - https://github.com/vedvkandge2000/Milkman

Le Jardin – Object-Oriented Garden Simulator | *Java, MVC, EventBus, JavaFX* Apr 2025 – Jun 2025

- Designed and implemented an interactive garden simulator that automates core gardening tasks such as watering, temperature regulation, and pest control using sensor-driven logic.
- Built a JavaFX-based GUI with real-time updates, enabling users to manually add plants, simulate rainfall and temperature shifts, and monitor pest activity visually.
- Ensured extensibility with a modular and decoupled design, supporting future additions like new plant types, weather events, or animations.
- Git Repo - https://github.com/saeedeshmukhh/Le-Jardin

Road Accident Analysis and Prediction | *Python, Jupyter, Pycharm, Git* June 2019 – May 2020

- Developed a machine learning-powered accident prediction web application model using PyCharm and Jupyter and hosed on PythonAnywhere, integrating Google API to help users find the safest driving routes based on accident data and implemented real- time alerts for users.
- leveraging Random Forest to analyze historical accident data and predict high-risk areas
- Secured Large Accident DataSets from Kaggle and performed Data mining techniques to obtain training and Testing Data.
- Designed a fully responsive web interface using React.js, JavaScript, and CSS for an interactive user experience.
- Published a research paper titled "Road Accident Analysis using Random Forest Algorithm," highlighting the insights gained and the model's effectiveness in predicting accident-prone areas.
- Git Repo - https://github.com/dsai160898/accidentprediction.github.io

Gesture controlled Arduino based Vehicle | *Arduino, RaspberryPi, RF module* Jan 2019 – Oct 2019

- Developed a mini car prototype that worked on gesture controls using Arduino.
- Established a wireless connection between the RF module and the Arduino board to transmit and receive accelerometer data, integrating the RF module and motor driver to control vehicle motors based on received data.
- Mapped various hand gestures to specific vehicle directions, such as stationary, forward, reverse, right turns, and left turn.

Technical Skills

Languages: **Java**, **Python**, C/C++, JavaScript, HTML/CSS
Databases: **MySQL**, SQL, **Microsoft SQL Server**
Cloud Platforms: **AWS (Amazon Web Services)**
Tools & Technologies: **Git**, Eclipse, IntelliJ, VS Code, Jupyter NoteBook, **Linux/Unix**, Agile, Pandas, NumPy, **React.js**, **Machine Learning**, **JDBC**, , **Duck Creek Policy Insurance Model**, **Dot Net Technologies MVC Frameworks**, **Multi-threading**, **Batch Scripting**, **Shell Scripting**,**Regression Testing**

Extra Curricular And Certifications

- Road Accident Analysis Using Random Forest Algorithm - Paper Accepted for Oral Presentation at ICCE-2020 Conference held on 28th - 29th November 2020. Conference details https://www.kiet.edu/icce2020/. paper ID-201
- Duck Creek Policy Configurator Certification with Mastery Level Grade in all Sections - Rating , Forms, Core