

Snehal Sudhir Bhole

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Professional Summary

Skilled Software Developer with over 3 years of experience in delivering customer-focused solutions through Software Development, Machine Learning and ETL tools, developing high-traffic secure applications using cloud-based architectures. Proficient in programming and collaborating with cross-functional teams, demonstrating initiative and agility to deliver optimized solutions.

Education

University of Ottawa

Sep 2022 – May 2024

Master of Computer Science – Concentration in Applied Artificial Intelligence (GPA: 3.72/4)

Ottawa, Canada

- Worked as a Teaching Assistant for Network Security and Software Architecture and Construction.
- Courses: ML, NLP, AI for Cyber Security, Virtual Assistants, Big Data Management.

University of Mumbai

Aug 2016 – Oct 2020

Bachelors in Engineering, Computer Engineering (GPA: 9.23/10)

Mumbai, India

- Paper published on "Estimating Food Nutrients Using Region-Based CNN" @ICCID 2020.
- Courses: Data Structures and Algorithms, System Design, Software Engineering, Cloud Computing.

Skills

Languages: Python, C++, Java, C#, JavaScript, Unix, ReactJS, NodeJS, Django, Flask, TypeScript, RabbitMQ, HTML, CSS.

Database Management: MySQL, PostgreSQL, MongoDB, Spark, Databricks, DB2, Oracle, Redis, Cassandra.

ML and Data Science: Predictive modelling, Ensemble techniques, Neural Networks, IBM InfoSphere Suite, Airflow.

Automation and DevOps: CI/CD, Jenkins, GitHub, Jira, Docker, TestRail, Confluence, IBM UCD.

Cloud: AWS (Lambda, EC2, S3, RDS, SageMaker).

Certificates: Software Architecture Foundation, Django, JAVA, Python, Data Visualisations.

Experience

Ford Motor Company

May 2023 – Dec 2023

Software Developer

Kanata, Ontario

- Developed a project management GUI tool using Django, ReactJS and MVC, resulting in a 40% faster delivery.
- Optimized code quality with SonarQube, reducing code complexity and improving code coverage by 20%.
- Crafted scripts for data processing and testing using Slash, Selenium and TestRail, reducing testing time by 30%.
- Automated tests implementing Test-Driven development principles for script engine, increasing reliability by 15%.

Tata Consultancy Services

Aug 2020 – Aug 2022

Systems Software Engineer

Mumbai, India

- Constructed interactive web modules using Django and PostgreSQL, delivering a robust system for over 500 users.
- Designed and optimized ETL pipelines with DataStage, Unix, and Python, reducing data processing time by 35%.
- Orchestrated CI/CD data-quality pipeline with Containerized Jenkins and UCD, reducing manual efforts by 25%.
- Reduced system vulnerability by 20% with software upgrades and security enhancements in UAT and QA environments.
- Enhanced team efficiency by participating in 200+ scrum meetings and code reviews adhering to coding standards.

Eastwest Electrical and Electronics NDT Pvt. Ltd.

May 2018 – Oct 2018

Full-Stack Developer

Mumbai, India

- Initiated Django-based microservices architecture transition with Docker and Kubernetes, elevating Calibration Certificate Generation System efficiency by 45%.
- Improved operational efficiency and security of SQL databases by 20% using 10+ triggers and procedures.
- Leveraged Tableau for data analysis to identify trends, resulting in a 25% increase in development productivity.
- Utilized Linux for server management, scripting, and troubleshooting, enhancing system reliability and efficiency.

Projects

- **Scene Parsing for Autonomous Vehicles** | *Image Processing, RestAPIs, Data Processing, Neural Networks*
Led a team of 5 to develop a working prototype of deep learning model APIs using image segmentation models like UNET and YOLO, achieving stable models and 82% model accuracy.
- **Speech-based Virtual Assistant-Vision** | *Full-Stack, NLP, LLM, AWS, RestAPIs, Python*
Engineered a cloud-native chatbot with 78% accuracy in speech recognition using BERT, Spark, AWS Lambda, EC2, Sage Maker and Restful APIs.
- **Malware Classification Using API Call Histogram** | *Machine Learning*
Trained XGBoost, SVM, Random Forest and MLP on API call histogram data extracted from Cooocku sandbox, achieving 89% reliability score while leveraging PCA to reduce dimensionality and tuning hyper-parameters.

Achievements

- Solved 150+ problems on Leetcode, 5-star badge on Hackerrank.
- Collaborated with stakeholders to launch 30+ RESTful APIs, optimizing data exchange and communication.
- Received "Star of the Quarter" award for exceptional performance, skills, innovation, and consistent contributions.