Snehal Sudhir Bhole

[Portfolio](.) ⚲ Ontario, Canada   ☏ +19057819415   ✉ bholesnehal20@gmail.com   in [snehal-bhole](.)   ⌂ [SnehalB06](.)

Professional Summary

Skilled Software Developer with over 3 years of experience in delivering customer-focused solutions through Software Development, Machine Learning and ETL tools. Proficient in programming with a strong grasp of OOP concepts. Adept at collaborating with cross-functional teams, demonstrating initiative and agility in meeting aggressive deadlines while staying committed to continuous learning.

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" @ICCIDE 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.
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 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 and APIs, 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**
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 Jenkins and UCD, reducing manual efforts by 25%.
- Reduced system vulnerability by 20% with software and security enhancements in UAT and Production environments.
- Enhanced team efficiency by participating in 200+ scrum meetings, facilitating swift issue resolution.

Eastwest Electrical and Electronics NDT Pvt. Ltd.   **May 2018 – Oct 2018**
Full-Stack Developer   *Mumbai, India*
- Initiated Django-based microservices architecture transition, elevating Calibration Certificate System efficiency by 45%.
- Improved operational efficiency 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.

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 Coocku 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.