Gautam Shetty

+1 902 995 0236 | gautam@dal.ca | LinkedIn | GitHub | Portfolio | Halifax, Canada

A sophisticated programmer and innovation enthusiast. Always seeking opportunities to improvise and adapt.

Education

Dalhousie University — Halifax, Canada
Master's in Computer Science; (M.C.S) ***GPA: 3.82/4.00*** — *Sep 2022 – present*

- **Relevant coursework:** Applied Machine Learning for Software Engineering Applications, Software Maintenance and Evolution, Machine Learning and Big Data, Programming Language Learning

SRM Institute of Science & Technology — Chennai, India
Bachelor's in Computer Science and Engineering; (B.Tech.) ***CGPA: 80.53/100*** — *Jun 2015 – May 2019*

- **Relevant coursework:** Algorithm Design & Analysis, Software Engg. Principles, Data Structures, Compiler Design

Work Experience

Dalhousie University — Halifax, Canada
Teaching Assistant — *Jan 2023 – May 2023*

- *Courses covered:* CSCI 5308 - Advanced Software Development Concepts

DXC Technology — Bangalore, India / Remote
Professional Software Engineer — *Oct 2021 – Jul 2022, Full-time*
Associate Professional Software Engineer — *Jul 2019 – Aug 2021, Full-time*

- DXC Assure : Developed various features for "Assure Policy" component under DXC Assure Life & Health.
- Handled centralized and standardized policy management systems. Currently having 1900+ customers globally and approximately 11M+ life and wealth policy under administration.

Oil and Natural Gas Corporation Ltd. — Vadodara, India
Software Engineer Intern — *May 2017 – Jul 2017, Internship*

- Implemented a minimal viable project to handle rigs and drilling equipment's data recovery & backup management.

Research Experience

SMART lab @ Dalhousie University — Halifax, Canada
Graduate Researcher — *Sep 2022 – present, Full-time*

- My research spans programming language analysis, code smells, software design, and optimization.
- Currently, contributing to SMART-lab under the supervision of Dr. Sharma.

Projects

Extract Method Identification | *GitHub*

- Machine learning is advancing the detection of refactoring candidates in source code. This study introduces a novel approach using a self-supervised autoencoder to predict extract method refactoring candidates.
- The method surpasses a state-of-the-art baseline model by 30% in F1 score, offering practical benefits for software developers and the potential for enhanced refactoring candidate identification methods.

Basic ML Concepts | *GitHub*

- Three reproducible machine learning projects covering various types of ML with BigData concepts with pre-processed dataset.
- *Concepts covered:* Traffic Pollution Analysis, Heart Disease Analysis, Hand Gesture Recognition

Publications

- I. Palit, G. Shetty, H. Arif and T. Sharma. *"Automatic Refactoring Candidate Identification Leveraging Effective Code Representation"* In Proceedings of the International Conference on Software Maintenance and Evolution (ICSME NIER 2023). October 2023. Bogotá, Colombia. | *View*