SWAPNIL KHARCHE

+1(607) 297-0952 | swapnil9.kharche@gmail.com | GitHub | Kalamazoo, MI

EDUCATION

STATE UNIVERSITY OF NEW YORK AT BINGHAMTON

Binghamton, NY

Master of Science in Computer Science

GPA: 3.68/4.00

05/2019

Relevant Courses: Algorithms & Data Structures, Computer Architecture, Operating Systems, Design Patterns, Data Mining

COLLEGE OF ENGINEERING, PUNE Bachelor of Science in Computer Science

Pune, MH, India 05/2015

TECHNICAL SKILLS / PROJECTS

- Programming Languages: Java (Advanced), C++/C (Intermediate), Python (Beginner), JavaScript (Beginner)
- Web Technologies: HTML5 / CSS3 (Beginner), React (Beginner), Spring (Intermediate), REST APIs (Intermediate)
- Databases: MySQL(Intermediate), Redis (Beginner), DB2 (Prior Experience)
- Other Tools/Applications: Linux, Git, Agile, Docker, AWS, ROS, CI/CD tools, ITIL, SDLC
- **CPU Pipeline Simulator Project**: Implemented an assembly instruction pipeline simulator to mimic the behavior of a speculative modern CPU using queues and buffers with different memory implementations such as Cache and In-memory storage. *Utilized Java, IntelliJ, Git.*
- **Recommendation System Project:** Designed a recommendation system using the collaborative filtering on user preference rating. Designed an API with two endpoints to get data on the users and the most preferred item for that user. *Utilized Python, pandas, Flask, Postman.*
- **Global Biometrix App Project:** Optimized a full stack web application aimed at providing background checks for people at local events and conferences. *Utilized React, Spring Boot, REST APIs, JavaScript.*

EXPERIENCE

TATA CONSULTANCY SERVICES - STRYKER CORPORATION Software Engineer

Kalamazoo, MI 10/2019 - Present

- **Teamwork:** Coordinated with multiple cross functional teams for integration and configuration of a cloud based procurement application used by about 4000 company employees, with multiple downstream applications. Developed REST APIs to handle real time requests to get account and purchasing data with MySQL and Redis.
- **End User Focused:** Observed large amounts of manual efforts by the procurement team. Identified root cause of efforts by meeting with business users. Introduced automated triggers based on business requirements to execute data integration to resolve inefficient data gaps, reducing manual efforts by 20%.
- Technologies: Spring Boot, RESTful APIs, XML, JSON, MySQL, MongoDB, Microservices, GraphQL, Java8.

VEHWARE Computer Vision Intern Binghamton, NY 09/2018 - 12/2018

- **Initiative:** Identified inefficient processing times for a computer vision program used for real-time hazard detection. Spearheaded a project to improve efficiency by applying an optical flow algorithm and machine learning to focus hazard detection on areas of interest, reducing overall processing time.
- Innovation: Created a Web API that allowed users to call the OpenCV code using web2py based on MVC framework, for easier access to the code.
- Technologies: OpenCV, C++, Python, TensorFlow, YOLO, MVC.

ACCENTURE SOLUTIONS
Application Development Analyst

Pune, MH, India 10/2015 - 08/2017

- **Development:** Developed web applications for client server environments and added functionalities to existing applications using Java/J2EE technologies.
- Data Analysis: Performed complex SQL queries to generate data reports which lead to correction of multiple issues in the client application.
- Technologies Java/J2EE, MySQL, JDBC, Maven.

ADDITIONAL INFORMATION

Interests/Hobbies: sketching, traveling, movie enthusiast