

SWAPNIL SADANAND KASPALE

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EDUCATION

University at Buffalo, The State University of New York; Masters in Computer Science [GPA: 3.524 / 4] *December 2022*
Courses: Analysis of Algorithms, Operating System, Database System, Intro to Machine Learning, Data Model Query Language, Modern Network Concepts, Software Testing, Advanced Concepts in Programming Language, Blockchain
Mumbai University, India; Bachelor of Engineering in Electronics and Telecommunication *May 2017*

TECHNICAL SKILLS

Languages: Java, Python, HTML, CSS, JavaScript, Solidity, Flask, C, C++, Rust, SQL

Frameworks: Spring, Spring boot, Junit, React, Smithy Server Generator for Rust

Database Technologies: PL/SQL, RocksDB

Project Management: Git

Tools: Docker, IntelliJ, Smithy, PyCharm, Oracle E Business Suite, Toad, SQL Developer, Control M, Putty

EXPERIENCE

Software Development Engineer Intern, Amazon, NY, United States *May 2022 – August 2022*

- Designed and implemented **RESTful** service using Rust to store data on hosts
- Integrated Rust web service with existing Java based application and implemented unit tests and integration tests
- Rust web service **improved the availability** of the application from **four 9s to five 9s**

Technology Analyst, Infosys Limited, Pune, India

January 2021 – July 2021

- **Managed and led** a team for development of projects
- Worked on **technical design** using raw client requirements taking into consideration functional aspects of the application to process **millions** of records of data
- Proven expertise in troubleshooting **fault analysis, resolution of problems** related to application sanity

Senior System Engineer, Infosys Limited, Pune, India

October 2019 – December 2020

- Designed and developed complex PLSQL procedures and queries for Oracle Financials Accounting Hub based Projects
- Developed runcards in Control-M Workload Automation tool using Shell scripting

System Engineer, Infosys Limited, Pune, India

October 2017 – September 2019

- Developed Oracle Forms, XML Reports in E-Business Suite
- Developed PLSQL procedures, batch and shell scripts to handle data

PROJECTS

G1 Garbage Collector | Java

August 2022

- Built G1 Garbage Collector as part of project for Advanced Concepts in Programming Language course
- Implemented heap allocation, mark phase, copying/clean up phase in Jikes RVM (Research Virtual Machine) and tested across different benchmarks

Charity Donation Using Blockchain | Solidity, React

August 2022

- Built a blockchain charity application using Solidity and React hosted on Ropsten to keep track of donations made for charity

Taco-DB | C++

February 2022

- Worked on Taco-DB as part of programming assignment for Database System course
- Implemented buffer manager, VARLEN page, B+ Tree, execution plan and states for operators

Pintos Operating System | C

August 2021

- Worked on Pintos as part of programming assignment for Operating System course
- Implemented priority scheduling, alarm clock, priority donation, MLFQS, system calls in Pintos

Text Chat Application | C

August 2021

- Built CLI based text chat application as part of programming assignment for Modern Network Concepts course
- Developed client and server components consisting of one chat server and multiple chat clients over TCP connections
- Features included blocking multiple users, storing messages received by client when logged out and delivering on logging in, and displaying the currently logged in clients

CERTIFICATIONS

- Create Your First Web App with Python and Flask, Coursera Project Network, Coursera, 2021
- Crash Course on Python, Google, Coursera, 2021
- HTML, CSS and JavaScript, The Hong Kong University of Science and Technology, Coursera, 2017