@ parthskansara@gmail.com

www.parthkansara.com

in linkedin.com/in/parth-kansara

EDUCATION

Stony Brook University

Stony Brook, NY

Masters of Science in Computer Science (Thesis), CGPA: 3.83/4

August 2022 - May 2025

Coursework: Computer Networking, Computer Vision, Operating Systems, Data Mining, Analysis of Algorithms

University of Mumbai

Mumbai, India

Bachelor of Engineering in Information Technology, CGPA: 8.99/10

August 2017 - May 2021

Coursework: Data Structures and Algorithms, Web Development, Software Engineering and Project Management

PROFESSIONAL EXPERIENCE

AICAN

Software Engineering Intern

August 2023 - April 2024

- Developed a customizable ERP SaaS platform using microservices to optimize production flows for MSMEs in the manufacturing sector, improving operational efficiency by 35%, enabling quicker decision-making and execution
- Leveraged Next.js, React, JavaScript, ES6, TypeScript, Node.js, Redux and MongoDB database to develop critical features for manufacturing job creation and process planning adopted by over 25+ clients
- Integrated the WebSocket API along with MQTT protocol for real-time communication of data across shop floor sensors and the SaaS platform, resulting in a 45% reduction in failure response times

Arthur J. Gallagher & Co. (Gallagher Re)

Software Development Engineer

July 2021 - July 2022

- Worked as a Java full stack engineer on iFM Online, a web application for financial modeling, leveraging Core Java, J2EE, JSPs, Maven and Spring, along with CI/CD tools, contributing to the end-to-end Software Development Life Cycle
- Enhanced scenario analysis reliability by fixing data parsing on the backend & sterilized data fields to avoid XSS injections, resulting in a 65% reduction in data-related errors and a 100% elimination of identified security vulnerabilities
- Streamlined online navigation by fixing redirection issues, marking a 30% decrease in navigation-related support tickets and improvised shorthand notation parsing on the front-end to incorporate user comments, augmenting user experience

TECHNICAL SKILLS

Programming Languages: Java, Python 3, JavaScript, C++, SQL, Bash

Web Development Frameworks: HTML5, CSS, Servlets, JSP, Struts 2.0, MVC, Spring, Express.js, React, Node.js, Django

Databases: MySQL, Microsoft SQL Server, NoSQL - MongoDB, AWS RDS

Version Control and Deployment: GitHub, GitLab, Docker, Amazon Web Services AWS, Google Cloud Platform Concepts: Object oriented Programming, MVC, Agile Methodologies, REST APIs, Algorithms, Cloud Computing

PROJECTS

A Review on In-Memory Caching Systems: Scalability, Efficiency and Optimizations Stony Brook University. Mentor: Dongyoon Lee

May 2023

 Exploring Segcache and related in-memory caching systems, focusing on scalability, efficiency, and optimizations in key-value stores like Memcached and Redis

Studied OS design, system calls, schedulers, concurrency, memory allocation, file systems, virtualization, and testing

Stony Brook University. Mentor: Dongyoon Lee

March 2023

October 2022

TelePhysio: Telemedicine Platform for Remote Physical Therapy Stony Brook University

[Java, Spring Framework, Docker, Kubernetes, Minikube, MySQL, WebRTC]

• Developed a Java based telemedicine application for remote physical therapy, containerized with Docker & orchestrated using local Kubernetes clusters via Minikube, with Spring, WebRTC, and OOP for real-time sessions and data management

EduStack: A Smart e-Learning Platform

March 2021

University of Mumbai

[Python 3, Django, Django REST framework, JavaScript, Node.js, React, MySQL]

Engineered a Python 3 full-stack web application, facilitating community-based education exchange via REST APIs

Vision and Language Navigation using Minimal Voice Instructions

March 2021

University of Mumbai [C++, Python 3, JavaScript, HTML, GCP, Shell scripting]

 Designed a navigation algorithm using YOLOv3 and a graph-based path planning module for the traversal of a virtual agent in a 3D space using the Matterport API

PR-FLT: Pulse Rate Measurement using Facial Landmark Tracking [Publication] University of Mumbai. Mentor: Purva Raut

December 2020

[Python 3, PyTorch, OpenCV]

Implemented low-cost non-invasive heart rate measurement by capturing head motions from facial video