Parth Kansara

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EDUCATION

Stony Brook University   Stony Brook, NY
Masters of Science in Computer Science, CGPA: 3.78/4   Expected: May 2024
Coursework: Computer Networking, Computer Vision, Operating Systems, Data Mining, Analysis of Algorithms
Teaching Assistant: CSE 114: Object Oriented Programming, CSE 316: Fundamentals of Software Development

University of Mumbai   Mumbai, India
Bachelor of Engineering in Information Technology, CGPA: 8.99/10   May 2021
Coursework: Data Structures and Algorithms, Operating Systems, Internet Programming, Advanced Data Management
Technology, Enterprise Network Design, Software Engineering and Project Management

WORK EXPERIENCE

Arthur J. Gallagher & Co. (Gallagher Re)
Software Development Engineer   July 2021 - July 2022

- Worked as a full stack engineer on iFM Online, a web application for financial modeling, leveraging **Java/J2EE** and **Spring**
- Improved scenario analysis reliability by rectifying data parsing and sterilized data fields to combat XSS injections, ensuring security compliance
- Streamlined online portal navigation by rectifying redirection issues and improvising shorthand notation parsing on the front-end to incorporate user comments, augmenting user experience

Tata Consultancy Services
Software Engineering Intern   December 2019 - February 2020

- Identified 4 classes of fraudulent activities in airline booking data via natural language processing on open-source datasets
- Performed feature engineering and trained an advanced **outlier detection** model using **Python** with an **87% accuracy**
- Deployed the machine learning model in a web application using the **MERN stack (MongoDB**, **Express.js**, **React**, **Node.js)**

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, SQL
Technologies and Frameworks: HTML5, CSS, Servlets, JSP, Struts, MVC, Spring, Express.js, React, Node.js, Django
Databases: MySQL, Microsoft SQL Server, MongoDB
Deployment Stack: Docker, Kubernetes, Amazon Web Services AWS, Google Cloud Platform
Version Control Systems: Git, SVN

PROJECT HIGHLIGHTS

TelePhysio: Telemedicine Platform for Remote Physical Therapy   October 2022
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

Pcapture: PCAP Analysis Tool for TCP and HTTP Flows in Networking ⌂   September 2022
Stony Brook University. Mentor: Aruna Balasubramanian   [Python, dpkt library]

- Built a tool for analysing and assessing the attributes of the **TCP** & **HTTP protocols** from **PCAP files** using the **dpkt** library

Visualization of Net Benefit CDF vs Cost of Reinsurance   February 2022
Arthur J. Gallagher & Co.   [Java, JSP, JavaScript, HTML, CSS]

- Built interactive visualization using **Chart.js** to extract financial insights along with the **JDBC API** for data retrieval

EduStack: A Smart e-Learning Platform   March 2021
University of Mumbai   [Python, Django, Django REST framework, JavaScript, Node.js, React, MySQL]

- Engineered a **Python** full-stack web application, facilitating community-based education exchange via **REST APIs**, payment integration, and personalized learning

Portfolio Website Redesign for a Graphic Designer   February 2021
Dwarkadas J. Sanghvi College of Engineering   [React, Node.js, Express, MongoDB, JavaScript]

- Transformed the design of a graphic designer's existing portfolio website to enhance the user experience, which reduced the overall bounce rate by **21%**

PR-FLT: Pulse Rate Measurement using Facial Landmark Tracking [Publication]   December 2020
University of Mumbai. Mentor: Purva Raut   [Python, OpenCV]

- Innovated non-invasive heart rate measurement by capturing head motions from facial video using **machine vision**