

# Parth Kansara

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## WORK EXPERIENCE

### Software Engineer Intern

August 2023 – April 2024

AICAN - <https://aican.co.in>

Remote

- **Backend API Engineering:** Architected scalable **REST APIs** with **TypeScript** and **Node.js** for a B2B SaaS platform, implementing robust error handling and optimizing queries, reducing job creation time by **30%**.
- **Data-driven UI Development:** Created a customizable workflow using **React** and **Redux** for complex state management, incorporating user feedback to improve UX with visual cues, boosting feature adoption among clients.
- **Performance Optimization:** Implemented **Next.js** for critical services within the microservices architecture, enhancing load times and SEO, while prioritizing feature rollouts to cater to existing client needs efficiently.
- **Real-Time Data Streaming:** Rewrote the data telemetry module by implementing **MQTT over WebSockets**, which improved latency and reliability, enabled robust real-time monitoring, and cut failure response time by **50%**.

### Software Development Engineer

July 2021 – July 2022

Gallagher Re - <https://ajg.com>

Remote

- **Full Stack Development:** Enhanced iFM Online, a financial modeling web application using **Core Java**, **J2EE**, **JSPs**, **Maven**, and **Spring**, alongside **CI/CD** tools, following **Scrum** and **Agile** methodologies.
- **Backend Security Enhancement:** Refactored data parsing & sterilized data fields to avoid XSS injections, resulting in a **65%** reduction in data-related errors and a **100%** elimination of identified security vulnerabilities.
- **UX Optimization:** Streamlined navigation by fixing redirection issues, decreasing navigation-related support tickets by **30%** and improved shorthand notation parsing to incorporate user comments, augmenting user experience.
- **Interactive Data Visualization:** Engineered a client-facing visualization using **Chart.js** to represent net benefits vs reinsurance costs with dynamic slope calculation for risk assessment, empowering data-driven business decisions.

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, TypeScript, C/C++, SQL (MySQL, PostgreSQL), NoSQL, bash, HTML, CSS  
**Frameworks:** React, Next.js, Node.js, Express, MongoDB, Django, Flask, FastAPI, SpringBoot, J2EE (JSPs, Servlets)  
**Developer Tools:** GitHub, Docker, Kubernetes, AWS (EC2, S3, Lambda), GCP, Prometheus, Grafana, Cursor, Copilot  
**Libraries:** Tensorflow, PyTorch, NLTK, OpenCV, numpy, pandas, SKLearn, XGBoost, dlib, matplotlib, Chart.js

## PROJECTS

**listentothis,bro: Chrome Extension to Simplify Music Sharing [Live]** | *React, TypeScript* February 2025

- Developed an extension for sharing songs directly into friends' Spotify playlists, streamlining music recommendation and reducing chat clutter. Live on Chrome Web Store, awaiting Spotify API's Extended Quota approval.

**A Review of In-Memory Caching Systems: Scalability, Efficiency and Optimizations** May 2023

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

**The Evolution of Operating Systems: Literature Review of 19 Milestone Papers [Link]** March 2023

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

**Telemedicine Platform for Remote Physical Therapy** | *Java, Spring, Docker, Kubernetes* October 2022

- Implemented a full-stack application for remote physical therapy using **Spring & WebRTC** for real-time sessions and data management, containerized with **Docker** and orchestrated using local **Kubernetes** clusters via **Minikube**.

**EduStack: A Smart e-Learning Platform** | *Python, Django REST framework, JavaScript, MySQL* March 2021

- Architected a full-stack e-learning platform using Django REST framework for API development and React for responsive frontend. Implemented data models in MySQL to support knowledge exchange and content management.

## EDUCATION

### Stony Brook University

Stony Brook, NY

*Masters of Science in Computer Science (Thesis), CGPA: 3.9/4.0*

May 2025

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

### University of Mumbai - D. J. Sanghvi College of Engineering

Mumbai, India

*Bachelors of Engineering in Information Technology, CGPA: 3.6/4.0*

May 2021

*Coursework: Data Structures and Algorithms, Database Management Systems, Software Engineering*