

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