# Pranav Dani

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#### **EDUCATION**

# SUNY - Stony Brook University

Aug 2023 - May 2025

New York, USA

Master of Science, Computer Science

- · Coursework: Distributed Systems, Operating Systems, Computer Architecture, Theory of Databases, System Security
- Teaching Assistant: (CSE 316) Fundamentals of Software Development

# University of Mumbai - Thadomal Shahani Engineering College

Aug 2019 - May 2023

Bachelor of Engineering, Information Technology

Mumbai. India

• Courses: Operating Systems, Database Management, Data Structure and Analysis, Computer Network And Network Design, Network Security, Computer Organization and Architecture, Data Mining and Business Intelligence

#### **SKILLS**

Languages and Frameworks: C, C++, Python, Java, React.js, Node.js (Express.js), Flask, HTML, CSS, JS Technologies: Git, Figma, GitHub Actions, PostgreSOL, Hadoop, Spark, Firebase, Heroku

#### EXPERIENCE

**Suven Consultants** Jun 2021 - Aug 2021 Software Intern Mumbai, India

· Collaborated on two Open Source Java projects: Home Inventory and Loan Management tool.

- Developed a feature using Printable interface to generate printable reports in PDF format using Java AWT and Graphics Library.
- Used SQLite3, JavaFX, and Java Swing components.

## PROJECTS AND RESEARCH

# Fault Tolerant Sharded Key-Value Store With Transactions using Raft | C++

Aug 2023 - Dec 2023

- Created a persistent linearizable key-value store utilizing the Raft consensus algorithm for leader election and data replication in an asynchronous environment. Implemented log compaction with Snapshots.
- Engineered sharding using consistent hashing, ensuring efficient data distribution across nodes. Automated partition rebalancing during node joins and departures.
- Implemented a versioned key-value store that supports cross-shard Transactions using 2-Phase Locking and 2-Phase Commit with Optimistic Concurrency Control.

## BackGen - Backend Generator | ICT4SD | Springer

Aug 2023

- Developed a software tool that **automates** the process of writing **backend code** for web applications.
- Creates a structure for data models and **RESTful API endpoints**, and generates executable code for the same in Golang.
- Generates approximately 48% of the code. (Result evaluated for creating a backend for a simple Todo application.)

## **ShareSpace** | React.js, Tailwind, Firebase, Figma, Excalidraw | GitHub

- Developed a web application called ShareSpace to facilitate roommate search by leveraging Firebase as the backend and React.js for the frontend.
- Implemented an **intuitive user interface** using Tailwind CSS.
- Utilized React.js to create filters for room searches based on user profiles, groups, and personal preferences.

## Short-Terms | NLP, HTML, CSS, JS, Python, FastAPI, Beautiful Soup | GitHub

Jan 2022 - Apr 2022

- Designed and implemented a **browser extension** (Manifest 3.0) to **summarize website content** with a single click.
- Leveraged **Beautiful Soup** for efficient page parsing and utilized **FastAPI** to handle requests from the extension.
- Incorporated NLP techniques through **Spacy** to optimize text summaries while preserving essential meaning.

# Maa-Sampati Marble and Granites | React. js, CSS, TypeScript, Firebase, Flutter | GitHub

Jul 2021 - Oct 2021

- Architected an easy-to-use E-commerce platform for creating Granites and Marble quotations using React.js.
- Utilized REST APIs in the web app to interact with Firebase for storing orders.

## Expense Tracker | Flask, PostgreSQL, Heroku, HTML, CSS, JS | GitHub

Apr 2021 - Jun 2021

- Designed and built a web app for recording and managing personal expenses with support for creating bulk expenses and exporting user data in CSV and Excel formats using Flask and PostgreSQL and hosted on Heroku.
- Provides the functionality to create personalized budgets based on multiple categories.

#### EXTRACURRICULAR ACTIVITY

### Our Tech Community (OTC) | ourtech.community | Admin

May 2022 - present

• Hosted 200+ hours of weekly OTC CatchUp sessions, organized two in-person OTC MeetUp event with 60+ attendees.

#### Google Developer Student Clubs TSEC | Core Team Member

Aug 2021 - Jul 2022

• Involved with organizing and planning multiple technical events and maintaining a community with over 500 students.