Pranav Dani

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EDUCATION

SUNY – Stony Brook University   **May 2025**
Master of Science in Computer Science   *New York, USA*
- Courses: Distributed Systems, System Security, Theory of Databases

University of Mumbai – Thadomal Shahani Engineering College   **May 2023**
Bachelor of Engineering in Information Technology (CGPA: 8.95 / 10.0)   *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

PUBLICATIONS

BackGen - Backend Generator | *ICT4SD - Springer*   **August 2023**
- A feature-rich 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. (Depends on the use case.)

EXPERIENCE

Suven Consultants | *Software Intern (Remote)*   **Jun 2021 – Aug 2021**
- Contributed to two Open Source Java projects - Home Inventory and Loan Management tool.
- Implemented the concept of Printable for printing the results generated by the application in PDF format using Java AWT and Graphics Library.
- Used SQLite3, JavaFX, and Java Swing components.

PROJECTS

Fault Tolerant Sharded Key-Value Store With Transactions using Raft | *C++*   **August 2023 – December 2023**
- Implemented a persistent linearizable key-value store with Raft for leader election and data replication with log compaction using Snapshots.
- Implemented Sharding using consistent hashing and automated partition rebalancing during node joins/departures.
- Implemented a versioned key-value store that supports cross-shard Transactions using 2 Phase Locking and 2 Phase Commit with Optimistic Concurrency Control.

ShareSpace | *React.js, Tailwind, Firebase, Figma, Excalidraw* | GitHub   **Feb 2023**
- Designed and built a web application for finding roommates.
- Has features like, filtering rooms based on user profiles, groups, and personal preferences.

Short-Terms | *NLP, HTML, CSS, JS, Python, FastAPI, Beautiful Soup* | GitHub   **Jan 2022 – Apr 2022**
- A browser extension for summarizing website content with a single click.
- Uses NLP through Spacy to optimize the text without losing important meaning.

Maa-Sampati Marble and Granites | *React.js, CSS, TypeScript, Firebase, Flutter* | GitHub   **Jul 2021 – Oct 2021**
- An easy-to-use E-commerce platform for creating Granites and Marble quotations.
- Uses Flutter for the admin application through which the seller can check the status of quotations.

Expense Tracker | *Flask, PostgreSQL, Heroku, HTML, CSS, JS* | GitHub   **Apr 2021 – Jun 2021**
- A web app for recording and managing personal expenses which also supports creating bulk expenses and importing user data in CSV and Excel formats for personalized editing.
- Provides the functionality to create personalized budgets based on multiple categories.

SKILLS

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

EXTRACURRICULAR ACTIVITY

Our Tech Community (OTC) | ourtech.community | *Admin*   **August 2023**
- A Tech-loving open-to-all community with 400+ current members.
- Hosted 200+ hours of weekly OTC CatchUp sessions since May 2022 involving technical discussions, project showcases, and talks.
- 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.

ISTE-TSEC | *Senior Committee Member*   **Jul 2021 – Jun 2022**
- Organized three major events with multiple technical events.
- Conducted coding challenges, workshops, and competitive coding contests for students.