Dhaivat Pachchigar

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EDUCATION

University of California, San Diego   La Jolla, CA
Bachelor of Science, Computer Science **GPA: 3.7** *(Regents Scholar)*   *September 2022 – June 2025*

PROJECTS

Full Stack - Task Manager | *Next.js, SpringBoot, Mysql, Material-UI, Tailwind CSS, Redux, Junit*
- Utilized **React** for the frontend and **Spring Boot** for the backend to engineer a full-stack task management web application designed for programmers, allowing admins to assign tasks to users and users to submit their tasks
- Employed a **microservices architecture** to separate **User**, **Task**, and **Submission** functionalities.
- Applied **Redux Toolkit** for efficient **state management** and integrated **Thunk** as middleware to streamline data handling between components using **Eureka Server**
- Implemented task features, including creation, assignment, updating, deletion, and filtering, to enhance task management capabilities. Utilized **MySQL** for data storage and management, ensuring reliable data retrieval and consistency.
- Secured the application with **JWT authentication** and **role-based permissions** to safeguard user data and maintain access control. Wrote test cases and integrated them into the **CI/CD pipeline** on **GitHub**.

Full Stack - Social Media Website | *React.Js, Java, Spring Boot, MySQL, Material-UI, Redux, Tailwind CSS, JUnit*
- Built a comprehensive **full-stack web application** using **React** for the frontend and **Spring Boot** for the backend.
- **Used Redux** as a **state management system** and **Thunk** as **middleware** to ensure seamless data flow and optimized performance.
- **Implemented real-time chat functionality** using **WebSocket** technology to enhance user experience.
- Designed **JWT-based authentication** in a **stateless application**, securing **API endpoints** with **custom filters** and configuring **CORS** for **frontend integration**.
- Successfully deployed the application using **CI/CD pipeline** with **GitHub Actions**, integrating linting and testing

Web Journal - A Journal for Software Developers | *HTML, CSS, Javascript, Electron.js, Puppeteer*
- Collaborated with a team of 10 fellow students to build a desktop application designed to help developers efficiently track their work and goals.
- Utilized Electron.js to ensure compatibility across Windows, MacOS, and Linux without internet connection.
- Implemented features such as a fully navigable **calendar** with major holidays, a **markdown-supported notes page**, a **to-do list** for long-term goal tracking, and a **labeling system** for efficient work organization.
- Wrote test cases using puppeteer to ensure the best user experience

AI Chatbot for Real-Time Stock Market Data | *Next.js, Tailwind CSS, Javascript, Java, SpringBoot*
- Using **Gemini AI** and **Alpha Vantage API**, a **real-time AI chatbot** for stock market data was developed, giving users access to the most recent financial insights.
- To manage API requests, set up a **Spring Boot** as the backend.
- Built a **responsive frontend** with **Next.js** and used **Tailwind CSS** for styling, utilized **TS Particles** to enhance user experience.
- Deployed the application for live use, enabling access to stock market data through a polished and interactive interface.

EXPERIENCE

Help Desk Assistant   June 2024-September 2024
                                                                                              Phoenix, AZ
- Provided technical support for over 70-room motel, managing check-in/out software, troubleshooting hardware/software issues, and ensuring smooth operation of front desk systems.
- Helped in training staff on computer systems, resolving IT-related queries, and maintaining secure, efficient network connectivity for both staff and guest use.

TECHNICAL SKILLS

Languages: C++, Java, JavaScript, Python, HTML
Developer Tools: Git, GitHub,
Libraries: SpringBoot, React.js, Next.js, Tailwind CSS