

EDUCATION

- **Purdue University, Indiana** 2023-Present
Master's in Computer Science CGPA: 4.0/4.0
- **Vellore Institute of Technology (VIT), Vellore** 2017-21
Bachelor of Technology in Computer Science and Engineering (Information Security) CGPA: 8.2/10

TECHNICAL SKILLS AND INTERESTS

Programming/Frameworks: Python, Java, C#, C/C++, Rust, .NET, Springboot, Flask, OOPs
Web/Tools: HTML, CSS, Bootstrap, JavaScript, PHP, React.js, Vue.js, Node.js, React Native, Android, VScode, Git, GitHub, AWS, Mocha, Cypress, Docker
Cloud/Databases: MongoDB, Firebase, Relational Database(mySql, MS Sql, PostgreSQL, Oracle SQL)
Relevant Coursework: DBMS, Data Structures & Algorithms, Algorithm Design Analysis & Implementation, Operating Systems, HCI, IoT, ML, AI, Theory of Computation & Compiler Design, Network Security, Cryptography, Web Programming, Mobile App Development, Quantum Computing, Software Engineering

PROJECTS

- **Mood-Musica: A Music Recommendation System Based on Emotions** June 2024
Designed a mood-based music recommendation system.
 - Leveraged cutting-edge Machine Learning algorithms to accurately detect users' facial expressions and landmarks. Integrated with Spotify API to fetch personalized song recommendations based on the detected emotions. Implemented features allowing users to save, like, and delete suggested songs, enhancing user engagement. Enabled seamless user experience by incorporating Spotify login authentication.
 - Technology Utilized: Python Flask, React.js, Google Firebase
- **Job Tracker - A Google Chrome Extension** December 2023
Designed a Google Chrome extension to keep track of new and applied jobs.
 - Implemented features like One-Click Job Listing Tracking, LinkedIn Integration, Bookmarking for Applied Jobs, Keyword-Based Job Information Display, Application Status Tags on Job Listings, CSV Export for Applied Jobs, Authentication and Authorization, Page Mutation Observer.
 - Technology Utilized: C#, React.js, MS Azure
- **FRAV – A Project Management Application (Jira Clone)** April 2023
Designed a web application specializing in project management.
 - Developed dynamic role allocation, code-first approach for database creation, and Virtual DOM in React. Created a one-page application with features like Sprints and Backlogs. Used REST API for the backend, JWT Tokens for authentication and authorization.
 - Technology Utilized: React.js, Node.js, Bootstrap

WORK EXPERIENCE

- **Teaching Assistant** 2023 – Present
Purdue University, Indiana
 - As a Teaching Assistant for Professor David Liu, I develop assessment tools, evaluate assignments, and provide student feedback. I offer technical support, assist with coding, and collaborate on research projects.
 - Assist Professor with projects in emerging technologies such as Generative AI and Quantum Computing.
- **Software Engineering Internship** May – December 2019
easilyDone Technologies LLP, Ahmedabad, India
 - Managed the design of the company's RSVP-based web application 'Events' using Vue.js and HTML technologies.
 - Implemented various features in the mobile application utilizing Google Firebase as the database and React Native framework. Received comprehensive training in Amazon Web Services (AWS) and Node.js to enhance technical proficiency.

RESEARCH PUBLICATION

- **A novel machine learning inspired algorithm to predict real-time network intrusions**
 – Authors: Rahul Trivedi, Narayanan Prasanth, Keshava Srinivas, Naman Bindra, SP Raja | Journal: Springer | Date of Acceptance: 02/04/2022 | Springer Link
- **K-Mean and Mean Shift Algorithms in Machine Learning Model for Efficient Malware Categorization**
 – Authors: Rahul Trivedi, Dharmik Patel, Keshava Srinivas. Dr. Kakelli Anil Kumar | Journal : Inder Science Publishers | DOI: 29/09/2021