Ritvik Billa

Software Developer

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SUMMARY

Skilled and innovative software developer with proficiency in coding, data structures, and algorithms. Highly motivated and enthusiastic coder with an intense desire for problem-solving and a dedicated focus on continuous self-improvement. Proficient in web development, adept at creating web applications, and an information security enthusiast.

EDUCATION

Vellore Institute Of Technology University, Vellore *2020-24*

B.Tech in Computer Science and Engineering CGPA: 8.8

PERSONAL PROJECTS

• **E-Commerce Website (link)** *Summer 2023*

An Web Application that is user friendly and helps customers to view, order and track the product

– Tools & technologies used: HTML, CSS, JavaScript, Node.js, SQL , Express. Js , WEB API's and REST API's
– Features: Browse the products & it feature, cart to cart, login to account and track the product

• **Website Tracker Extension (link)** *Summer 2023*

The Chrome extension is designed to assist users in tracking websites and storing their links for future reference.

– Tools & technologies used: HTML, CSS, JavaScript, JSON, Web API Storage Mechanism
– It incorporates JSON and one of Web Storage API mechanism Local Storage techniques to store website links in browser itself.
– It ensures that the logged links are maintained until the user chooses to delete it even if user refresh our go to new chrome tab.

• **Text Encryption to PNG for secure transfer (link)** *Spring 2023*

An front end website using Flask that converts text message into secure .png image for secure transfer of messages

– Tools & technologies used: Python , Flask
– Text input is converted into image using each word ascii value and 256*256 matrix
– Public Image selected at random using urllib python module and private key - image already shared between communicators and encpryt the message image to png image using predefined function. There is also program for decryption by backtracking same pre-define function.

• **Hospital Management System (link)** *Winter 2022*

An Interactive Web Application that track patients records ,manages appointments schedules and reports

– Tools & technologies used: HTML, CSS, JavaScript, MySQL, PHP
– Users can view there reports , appointment schedule and book appointment

• **Cash Flow Minimizer (link)** *Autumn 2022*

It is based on DSA to find smallest number of transactions necessary to settle debts between multiple parties

– Language: C++
– Uses the Knowledge of Graphs, Heaps and Multi sets

TECHNICAL SKILLS

Languages:	C++, JavaScript(ES5/ES6), HTML, CSS , Python, C
Frameworks:	MySQL, Express.js, Node.js, ASP.NET ,MongoDB, JSON
Tools:	Git, Github, AWS, Linux, AWS, REST API's
Coursework:	Design and Analysis of Algorithms, Operating Systems, Object Oriented Programming, Database Management System, Software Engineering, Computer Networking , Information Security
Skills:	Front-end, Agile, Back-end, Problem Solving, Critical Thinking, Logical & Analytical Thinking

CERTIFICATES AND PUBLICATIONS

• **Microsoft Security, Compliance, and Identity Fundamentals (certificate)** - Microsoft *June 2023*

• **Iot Based Drip Infusion Monitoring System (paper)** - IEEE *Februray 2022*
Proudly Presented in IEEE Delhi Section DELCON 2022 Event and Paper was published in April 2022