TEJAS HELWATKAR

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Education

Master of Science in Computer Information Science	**Graduation – Dec 2023**
Indiana University Purdue University, Indianapolis	CGPA – 3.47/4
Bachelor of Tech in Computer Science & Engineering	**Graduated – Jun 2021**
Vellore Institute of Technology, Vellore, India	CGPA – 7.87/10

Skills

Programming Languages: C++, Javascript, Python and Java

Web Technologies: HTML/DOM, CSS, Node.js, React.js, Redux, Bootstrap, jQuery, Vue, Typescript

Database: SQL, MongoDB, Firebase, PostgreSQL

Operating Systems: Linux and Windows

Graphic Designing & UI/UX Design: Adobe Photoshop, Adobe Illustrator, Adobe XD, Figma, Canva

Software and Tools: Git, Matlab, VS Code, Visual Studio, Star UML

Experience

Graphic Designer and UI/UX Designer at Sigma Tenant　　　　　　　　　　　　　**March 2019 – Present**

- Work on creating Graphical Illustrations, logos and Social Media Posters for marketing the startup.
- Responsive UI/UX designs and working prototypes of Mobile and Web Applications for clients.

Summer Web Development Intern at Faxon Digital Marketing　　　　　　　　　　**May 2020 – June 2020**

- Built an e-commerce website that performs the functionalities of add/delete product, add to cart function and checkout function with two sections one for customers and one for admin.
- Front-end, Design and Back-end Development using HTML, CSS, Bootstrap, Node, Express.js.
- Database used Mongoose and MongoDB and authentication using Passport.js

Software Development Trainee at Kanoo IT　　　　　　　　　　　　　　　　　　**May 2019 – June 2019**

- Studied the applications of .NET in Enterprise Resource Planning & CRM solutions
- Built web applications using .NET framework for clients that require HR and Payroll solutions.

Projects

Disney Plus Clone　　　　　　　　　　　　　　　　　　　　　　　　　　　　　**July 2023**

- This app emulates the Disney plus streaming app with all the front-end functionalities. It is built using React, the carousel animations within are done using React slick, firebase for authentication and styled components are used for a responsive website.

Automated Image Caption Generator　　　　　　　　　　　　　　**August 2022 – December 2022**

- This project aims to use Convolution Neural Networks (CNN) and Long-Short Term Memory (LSTM) techniques to generate a caption for a given image. Xception and VGG16 models are train-tested on a subset dataset made combining Flickr8k, Flickr30k and MS COCO. Python libraries used Keras, TensorFlow, NumPy, Pickle and TQDM.

Secure File Transaction using RSA Cryptosystem and Message Authentication using MD5:　　**August 2022 – December 2022**

- The modified RSA algorithm is used for secure file transmission and MD5 hashing algorithm is employed for authentication purpose.

Slack App Clone　　　　　　　　　　　　　　　　　　　　　　　　　　　　　**June 2022**

- The application performs chat functionality of the slack app. The user can create multiple channels to chat and communicate in real time with members. The app is built using React library and the data is stored in firebase database.

Spring Cloud Load Balancer for Microservices Application　　　　　　　　　　　**Feb 2022 – May 2022**

- Spring load balancer to balance the microservices working in an application. The microservices provide a few services and deliver a gateway to access these services, handle fault tolerance, provide secure transferring and are scalable.

Fake News Detection using Machine Learning　　　　　　　　　　**August 2020 – November 2020**

- This project aims to detect and identify fake content in 16,000 news articles appearing on social media platforms using five machine learning models, comparing their accuracies, and finding that LSTM was the best model for the purpose with an accuracy of 93.8%.

Facial Expression Recognition Software　　　　　　　　　　　　**August 2019 – November 2019**

- This project aims to present an approach to recognize human facial expressions for software development by employing Bezier Curve Approximation Technique. It detects five human facial expressions, namely smile, fear, ambiguous, surprise, anger. Use of concepts in software engineering like reliability, portability and software testing. The implementation is done using C# in Visual Studio

Publication

"Deep Ensemble Learning for Agricultural Land Mapping and Classification from Satellite Images", Tejas Helwatkar, Vignesh Balaji and Yash Asawa, in International Journal of Engineering Research and Technology, Volume 10, Issue 5, May – 2021