UTSAV KRISHNATRA

3138 Donnelly Street, N9C1M2
krishnau@uwindsor.ca | +1 647467 2339 | https://www.linkedin.com/in/utsavkrishnatra-b5a48b147/

TECHNICAL SKILLS

- JAVA (CORE), C, PYTHON (2.7,3) , JavaScript
- React JS, JSTL, XML, SERVLETS, HTML5, CSS3, Agile, Node JS, NextJS. Express

EDUCATION

Master of Applied Computing   Jan 2023 - Apr 2024
University of Windsor, Windsor, Ontario
- CGPA (3.2/4) - 80%

Bachelor of Technology (Information Technology)   Aug 2016 - Oct 2020
Guru Gobind Singh Indraprastha University, NEW DELHI, INDIA
- CGPA (8.2/10) -82%

WORK EXPERIENCE

ASSISTANT SYSTEM ENGINEER   Apr 2021 - Oct 2022
TATA CONSULTANCY SERVICES, BANGALORE, KARNATAKA
- Analyzed educational requirements of the university of Sydney and translated functional needs into technical specifications.
- Developed interactive dashboard utilizing ReactJS framework to effectively monitor real-time customer requests, alongside implementing intuitive charts and tables for optimized data visualization.
- Built interactive UI using HTML5, CSS3, and JavaScript, incorporating SASS frameworks in dynamic pages.
- Utilized React lifecycle methods, state, props, and events for creating interactive and stateful React components.
- Implemented routing using react-router for smooth navigation within application.
- Designed comprehensive action creators and reducers for enriched features in the application.
- Employed React Axios to fetch data from the backend APIs and update Redux store states.
- Utilized MongoDB for secure storage and access to data.
- Created server-side logic using Node.js and Express, integrating middleware for handling HTTP requests.
- Leveraged external libraries like WhatsApp, socket.io, S3-Bucket, to enhance app's functionality.
- Managed version control using GIT as a code repository for collaboration and tracking changes.

RESEARCH ASSISTANT   Jan 2020- Oct 2020
University School of Information and Communication Technology, GGSIPU, New Delhi, India
- Worked on cryptographic techniques to develop a pattern-based cipher using 2 dimensional geometries.
- Created a symmetric key algorithm using multi-layered ciphering techniques while designing a custom cipher that used Cross Language Cryptography techniques, pseudo-random keys (SALT) along with unique properties of geometric shapes such as vertices, medians, orthocenters, and centroids to develop encryption and decryption techniques.

SUMMER INTERN   Jan 2020- July 2020
ERNST & YOUNG, GURUGRAM, HARYANA
- Participated actively in requirements analysis, comprehending technical needs and contributing to client meetings for defining website goals and development strategies.
- Developed engaging user interfaces using HTML, CSS and JavaScript within the ReactJS framework.
- Utilized Git for version control, ensuring efficient collaborative development.
- Enhanced functionality by integrating features to invoke web APIs/services through tools like Axios and JSON.
- Integrated external libraries including Cloudinary, Twillio, chart.js, body-parser, bcrypt.js and crypto.js to expand project capabilities.

SUMMER RESEARCH INTERN   Jun 2018 - Jul 2018
DEFENCE RESEARCH AND DEVELOPMENT ORGANIZATION, NEW DELHI, INDIA
- Created app using Java, Java Spring Boot, JSP, XML, JDBC, Servlets, and MySQL for library management for in-house employees.
- Integrated authentication and authorization mechanism with DRDO's custom APIs and cryptic algorithms for enhanced security.
- Implemented RESTful APIs to facilitate data exchange between frontend and backend.

CERTIFICATES

- Agile Software Development: Scrum for Developers, Linkedin
- Learning Git and GitHub, Linkedin,Learning Hadoop, Linkedin
- Software Design: From Requirements to Release, Linkedin
- Learning SQL Programming, Linkedin
- Scrum: The Basics, Linkedin

PROJECTS

- Client -Server mini–Bash Application for Linux using C
- Web Search Engine in Java (using BFS for Crawlers, Ternary Search Tree, Heaps, HashMap, Priority Queues, TRIE for dictionary, Regex)
- Resume Builder (React Redux, Authentication, SCSS, HTML)
- React Reels (Firebase, React, Material UI, Express, Node)
- Movies App Using React Functional Components
- Full Stack Food Delivery Application (MERN stack) with Payment Gateway Integration

  Github: (utsavkrishnatra (utsavkk90) (github.com)

PUBLICATIONS

APRIL 2020
PATTERN ORIENTED SECURITY ENCRYPTION TECHNIQUE (POSET)[SSRN]
- Usage of two-dimensional(2D) figures and proposed 3D geometry in encryption and decryption; additional security using multiple levels of encryption and customized padding
LINK
- POSET: pattern oriented security encryption technique by Utsav Krishnatra, Rahul Johari, Medha Chugh :: SSRN