ANIKET KARNA

Salt Lake City, Utah, USA | 385-775-1744 | aniketkarna1303@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

EDUCATION

University of Utah, Salt Lake City, USA   **August 2021 – May 2023**

Master of Science in Computer Science
Coursework: Data Science Visualization, Graduate Algorithms, Operating Systems, Computer Architecture.

University of Mumbai, India   **August 2016 – December 2020**

Bachelor of Engineering in Information Technology
Coursework: Data Structures and Analysis, Applied Mathematics, Software Engineering & Project Management.

SKILLS SUMMARY

- **Programming Languages:** JavaScript, React, HTML5, CSS, Python, Java
- **Web and Design Software:** NodeJS, D3, XAML, Bootstrap, Angular
- **Tools & Technologies:** Linux, AWS, Docker, REST, Spring Boot, GraphQL, Cypress, CI/CD, Express
- **Databases:** MySQL, MongoDB, DynamoDB, PostgreSQL

PROFESSIONAL WORK EXPERIENCE

Associate Instructor | University of Utah   **August 2023 – Present**

Salt Lake City, USA
- Graduate Teaching Assistant for PHYS 2215: **Physics MATLAB** for Scientists and Engineers.
- Reinforced lessons presented by Professors, developed programming assignments, and conducted lab sessions.

Software Engineering Intern | Evans & Sutherland, A Cosm Company   **June 2022 – August 2022**

Salt Lake City, USA
- Created a highly efficient **C# and XAML-based WPF tool** during my summer internship, resulting in a **30% optimization in library search time** for astronomical entities within the Digistar software.
- Implemented an efficient recursive algorithm to traverse folder structures and Optimized file content search by utilizing **file streams** to read data in **1024-byte chunks**, enhancing performance and memory usage.
- Hands-on coding in C#, XAML, Windows Presentation Foundation, Visual Studio, Git.

Website Developer | Energy and Geoscience Institute   **February 2022 – August 2022**

Salt Lake City, USA
- Assisted in web architecture development, deployment, documentation, debugging, and testing of the **EGI website**.
- Implemented Angular Universal for server-side rendering, resulting in reduction of the **First Contentful Paint (FCP) time by 600 ms** and **improved SEO**.
- Deployed the website on **GCloud** virtual machines and configured **NGINX** for hosting.
- Hands-on coding using **HTML5, CSS, JavaScript in Angular framework**.

PROJECTS

Penguin Magic E-Commerce Website| *CSS, JavaScript, React*
- Developed a fully responsive multi-page website for a magic e-commerce company.
- Demonstrated strong frontend skills with **React**, building dynamic user interfaces, intuitive product catalogs, and fully functional shopping cart features.
- Prepared the Ecommerce website for production, including the setup of **CORS** for seamless **frontend-backend communication**, and successfully deployed the application to a hosting service, ensuring **scalability and reliability**.

Visualization of Petrol Statistics by Country | *JavaScript, d3, Python, Pandas, Git*
- Leveraged the **d3.js framework** to create an immersive data visualization of petrol data statistics.
- Developed dynamic bar-chart, line-chart, Winkel Tripel map projection, and a dataset table for data visualization.
- Implemented **interactive onclick** events, ensuring seamless updates across all visualization components, resulting in a highly engaging and user-friendly experience.

Movie Review Application | *Java, React, Spring Boot, MongoDB*
- Designed and implemented **RESTful endpoints** for **CRUD operations**, ensuring smooth communication between the client and server.
- Configured environment variables and handled dependencies using **Maven** and implemented user authentication and authorization mechanisms to secure the application.
- Used **React hooks**, such as useState and useEffect, to manage state and handle side effects in the front-end.