

FNU DEEPANSHU

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Education

University at Buffalo (State University of New York at Buffalo) **Aug 2022 – Jan 2024**

Master's of Science in Computer Sciences (GPA: 3.7/4.0) *USA*

Relevant Coursework : Analysis of Algorithm, Machine Learning, Information Retrieval, Natural Language Processing.

GLA University **Aug 2013 – Aug 2017**

Bachelor's of Technology in Computer Sciences and Engineering *India*

Technical Skills

Languages : JavaScript, Python, C++, TypeScript, Java.

Web Development Technologies: : React.js, Redux, Next.js, Flask, Django, Node.js, Express.js, RESTful Web Services (API), Vue.js, Web Socket.io, GraphQL, Mocha, Jest, Material UI, D3.js, Chart.js, HTML, CSS, SCSS, JSON, jQuery, AJAX, HTTP, WCAG.

Databases : MongoDB, MySQL, PostgreSQL.

Tools : Visual Studio Code, Jupyter, GitHub, Git, Version Control, Code review, PyCharm, Linux, Postman, Agile, Scrum, Microsoft Azure, DevOps, CI/CD pipeline, NPM packages and Cloud Services.

Professional Experience

Tavant Technologies **Aug 2021 – Aug 2022**

Senior Software Engineer *India*

- Pioneered creation of scalable, robust, testable, efficient, secured, and maintainable code while conducting **code reviews** and preparing **technical documentation** to ensure high-quality code delivery, resulting in an 80% reduction in bugs.
- Designed and expertly implemented front-end components using **JavaScript, React.js, Redux, Micro-Frontend, and TypeScript** while utilizing **CI/CD** practices to maintain a seamless user experience and optimal performance for **web and mobile** applications, resulting in a 25% increase in client satisfaction and a 20% decrease in page load times.
- Trained & led a team of 4 members & constructed interfaces utilizing **Story Book, Babel, Webpack, & Jest**, resulting in creation of **reusable NPM packages** saved development time by 30% & increased efficiency by 25%.
- Collaborated with clients to establish a clear understanding of needs and to redesign application, ended in a 35% reduction in complexity, improved functionality, and a better user experience.

EY - Ernst & Young GDS LLP **May 2021 – Aug 2021**

Senior Software Engineer *India*

- Leveraged expertise in **Vue.js** to create and enhance front-end of an application, resulting in a 25% improvement in loading time and enhanced UI.
- Implemented a secure authentication and authorization system that enforced user login rights, restricted URL access, and prevented unauthorized access, ensuring that the application was protected from potential security threats and attacks.

Infosys **Nov 2017 – May 2021**

Senior Systems Engineer *India*

- Engineered **vAuto**, a high-performance Automation Framework employing the **MERN stack & Flask (Python)** to execute automated test cases, resulting in a remarkable 40% enhancement in team workflow efficiency.
- Architected **RESTful APIs and socket.io & chart.js** for test case execution, live logging, user interface, report generation, and data visualization, culminating in a 20% increase in productivity.
- Developed Wi-Fi Automation tool with real-time logging via **socket.io & MongoDB** storage. Optimized performance by 15% with indexing and sharding, and assured scalability, robustness, and testability
- Optimized front-end code by 25% using techniques such as **Modern JavaScript, webpack, babel, functional components, lazy loading**, and performance optimization strategies
- Converted vAuto from a proof of concept to production code, achieving 40% improvements in workflow efficiency and productivity.

Academic Projects

IIMS Web Application for Incident Analysis & Emergency Response **Jan 2023 - May 2023**

- Developed an innovative IIMS web application with **React.js & Python**, Flask, enabling efficient data exchange and incident data visualization. Yielded 30% reduction in incident response times & reinforced decision making.
- Improved incident analysis by using Wejo data, leading to a 25% decrease in emergency service dispatch times and streamlined traffic flow.