NISHANT BASU

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Education

Texas A&M University, College Station, Texas	May 2026
Master of Science in Computer Science	CGPA : 3.66/4

International Institute of Information Technology (IIIT), India	June 2021
Bachelor of Technology in Information Technology	CGPA : 8.74/10

Relevant Coursework

- Intelligent User Interfaces
- Machine Learning
- Software Engineering
- Pattern Recognition

Technical Skills

Languages: TypeScript, JavaScript, HTML-CSS, C++, C#, Python, PostgreSQL, MongoDB.
Developer Tools:GitHub/Git lab, CI/CD, Android Studio, Splunk, Dynatrace, Postman, Fiddler, Jira.
Technologies/Frameworks: Machine Learning libraries, Lit Element, Polymer, Web Components, Vue.js, React, Angular, ASP.Net Core, Django, ExpressJS, Micro Front-ends, Micro Services, Docker, Kubernetes, NGINX, Jest, Rollup-Webpack, Open WC, SinonJS, ChaiJS, Web-Test-Runner, Tailwind.
Cloud Platforms: Pivotal Cloud Foundry, Azure, AWS

Experience

Dell Technologies, India

Senior Software Engineer	April 2024 – August 2024

- Led a team of 6 developers in developing and improving the global checkout system for Dell.com and Premier platform.
- Acted as a subject matter expert (SME) for frontend infrastructure across all cart and checkout teams to drive consistency and streamline order processing workflows.

Software Engineer 2 & 1	August 2021 – March 2024

- Oversaw the development of 50+ micro front-ends and microservices, using ASP.NET Core and C# for REST APIs backend, and LitElement web-components in TypeScript as frontend, improving scalability and viability of the e-commerce platform.
- Utilized Pivotal Cloud Foundry Git version control and CI/CD tools for cloud deployment and management of microservices, ensuring 99.9% up-time during high-traffic events like Black Friday sales.
- Practiced Agile methodologies, participating in daily scrums, sprint planning, and retrospectives to ensure efficient project delivery.
- Developed suffix-based web components to enable lazy loading, reducing time-to-interact by 5%, producing a robust user experience.
- Created an internal NPM package for dynamic loading of web components, enabling seamless on-load operations and reducing bundle size by 30%.
- Implemented multiple contact-related features, resolving over 500+ critical logistics and tax compliance issues.

Projects

Multimodal fusion, Food Calorie prediction | Python, Machine Learning, Transformers

- Developed a multimodal deep learning framework integrating CGM sensors, food images, and viome data to predict lunch calorie intake, achieving 32.7% improvement in validation accuracy within first 3 epochs
- Implemented specialized neural architectures (LSTM, CNN) with attention fusion mechanisms and gradient clipping, reducing RMSRE from 1.13 to 0.78 through dynamic modality weighting.

Logistics Management for CureBay | Express, Lit, Nginx

- Freelanced to create a logistic management app, **DMS(ppt-link)**, handling approximately 1,200-1,500 orders daily across 3 states in India. Built and managing independently using Express.js, MongoDB, Lit and Three.js.

Lit Web Component Lazy Loader | Typescript, Node, NPM

- Developed an NPM package to lazy load suffix-based Lit element dynamic components, eliminating 100% of initial load for non-critical web components.
- Reduced initial bundle size by 30% and improved time-to-interact by 5% for micro front-end applications.

Accomplishments / Training

- GB-MERIT Undergraduate Scholarship (IIIT Bhubaneswar) for top 3 academic achievers in IT Major.
- Dell Hack-To-Hire Hackathon Winner.
- Nav Ujjwal Hackathon Finalist for **Parchi** - Mobile App for paper less Medical Services.
- ACM Summer School on Algorithmic and Theoretical Aspects of Machine Learning at IIIT Bangalore.