

AMRITA DUBEY

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EDUCATION

Master of Science in Information Systems, Northeastern University, San Jose, CA, USA

expected Dec 2024

Courses: Web design & development, Data Structure and Algorithm, Data Science & ML, Large Language Models, DBMS

GPA: 4.0

Bachelor of Engineering in Electronics & Telecommunication, KIIT University, Bhubaneswar, India

Jun

2014

SKILLS

Programming Languages

JavaScript, TypeScript, Java, SQL, Python, C++

Web Technologies

React.js, Node.js, Express.js, HTML, CSS/CSS3, Tailwind CSS, REST, LESS, SASS, Bootstrap, Angular.js, jQuery, ES6, JSP, Redux, Babel, Webpack, NPM, nginx, AJAX, MVC, Analytics tool, Cookies, Accessibility (a11y), Jest, XML, JSON, CORS, YAML, GraphQL, Swagger, AWS, Shell Scripting, Linux

Databases & Tools

MySQL, MongoDB/NoSQL, SQL Server, PowerBI, Lucidchart, dBeaver

Tools & IDEs

SVN, GIT, Bitbucket, VS Code, Figma, Tomcat, JIRA, Maven, Jenkins, Confluence, Postman, Eclipse, IntelliJ, Jupyter Notebook, Colab, Notion

PROFESSIONAL EXPERIENCE

Graduate Teaching Assistant, Northeastern University, CA, USA

Jan 2024-Apr 2024

- Mentoring Students for **Web Development (Node.js, Express, React.js, HTML, CSS, a11y, JSON, Git, REST)** coursework by clarifying concepts, presenting demos and reviewing students' code to enhance their programming skills and ensure adherence to best practices
- Managing the grading process for assignments and projects, ensuring fair and timely evaluation of students' work

Associate (Senior Software Developer), JP Morgan & Chase, Bengaluru, India

Dec 2020-Jan 2023

- Spearheaded the deconstruction of a monolithic application, transforming it into a micro-frontend architecture, leading to remarkable improvements in scalability, flexibility, and maintainability
- Designed and implemented UI in latest **React**-based proprietary framework and integrated to improve sign-in security by offering flexible options for setting up additional security layers on trusted devices resulting in a 60% reduction in fraud incidents
- Developed, improved, and managed in-house development tools, leveraging **Node.js** and **shell scripting** to automate build, mock services, testing, and deployment procedures
- Resolved production issues proactively by efficiently debugging and utilizing **Splunk** to troubleshoot, which boosted website performance by 7%
- Built a new feature using **JavaScript**, **HTML**, **LESS** and **Blue.js** to enable device recognition which reduced the user login time by 80%
- Accelerated multiple feature delivery through efficient effort estimation, code reviews, cross-functional collaboration, and impactful demos

Consultant (Software Developer), Deloitte, Bengaluru, India

July 2018-Dec 2020

- Built multiple B2B and B2C e-commerce websites using technologies including **React.js**, **Vue.js**, **JEST**, **HTML**, **LESS**, **TypeScript**, **JavaScript** and **Node.js**
- Created web application for pizza delivery chain using **React.js** and **Node.js** to create over 750K orders across platforms
- Achieved **ADA** compliance by following accessibility best practices and conducting comprehensive accessibility (**a11y**) testing using NVDA, Wave, and Axe and resolved the accessibility issues which ensured inclusivity and increased business by 10%
- Crafted admin dashboard for data visualization using **React.js** and **Material UI**, incorporating **React-Redux** for state management, **Axios** for data fetching, and **Node.js** for **RESTful APIs**. Created visually compelling graphs and charts, empowering stakeholders with data-driven insights.

Senior Software Engineer, Infosys, Bengaluru, India

Feb 2015-June 2018

- Collaborated with business analysts and clients to gather and assess project requirements, resulting in creation of comprehensive and effective **prototype** using **HTML**, **CSS** and **jQuery** for return module of GST portal
- Constructed return dashboard of GST portal following **MVC** and utilizing **Angular.js**, **routing**, **HTML**, **CSS**, **SASS**, **JavaScript** for UI and Integrated with **REST APIs** developed in **Java**, which unified all taxes benefitting all the business, government, and citizens of India
- Designed feature for bulk upload and batch processing of purchase invoices using **Angular.js** and **Node.js**, reducing filing time by 80%
- Implemented filing process on dashboard and integrated with API, enabling efficient filing for invoices uploaded offline. Resulted in 40% increase in filing and reduced server overhead during close due dates
- Collaborated with Clients to identify and analyze the productions and UAT defects. Proficiently queried **MySQL** databases using **SQL** and performed systematic debugging techniques, leading to issues resolutions and system optimization

ACADEMIC PROJECTS

Digit Recognizer (Java, NumPy, Pandas, Keras, JavaFX, TensorFlow, MNIST, Maven)

Jan 2023 Apr 2023

- Designed and built scalable Digit Recognizer application using **JavaFX** that provides an intuitive graphical user interface enabling users to draw digits using either touch screen or a mouse. Applied factory design pattern for inheritance and interfaces in **Java** to bolster development
- Trained sequential and **CNN** model with an extensive dataset of handwritten numerical digits (MNIST dataset) using **Keras**
- Integrated the model within Java application using **TensorFlow** java library

EventHub Calendar (Node.js, React.js, Express, Webpack, babel, REST, MongoDB, HTML, CSS, JavaScript)

Sept 2023-Dec 2023

- Designed and developed personal event calendar integrated features like secure user authentication, event management, profile management, ensuring an intuitive and seamless experience for users
- Emphasized best practices, responsive and adaptive design, mobile first approach and accessibility (a11y)
- Implemented **REST APIs** using **Node.js**, **Express**, seamlessly integrated **MongoDB** to store and retrieve data efficiently