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EDUCATION

University of Massachusetts Dartmouth

Jan 2023 - Present

Master of Science in Computer and Information Science

Rajalakshmi Engineering College, Tamil Nadu, India

Aug 2018 - May 2022

Bachelor of Engineering in Computer Science

ACADEMIC PROJECTS

Decentralized Token Transfer and Transaction Tracking System using ICP Blockchain

Jun 2024 - Jul 2024

University of Massachusetts Dartmouth

- Constructed a decentralized token transferring and transaction tracking web application through combining HTML, CSS, JavaScript, React.js for front-end enabling smoother interface and Motoko for back-end.
- Applied Internet Computer Protocol's Internet Identity for robust authentication and security of the user resulting in a **40%** reduction in unauthorized access attempts compared to traditional authentication methods.
- Integrated ICP's tamper-proof ledger to secure and validate all token transfers and transaction records, enhancing trust and reliability.
- Utilized efficient state management and asynchronous data fetching in React.js to provide seamless user experiences and real-time transaction updates.
- Demonstrated robust Git version control for efficient code management, ensuring seamless integration of styling enhancements and real-time transaction listing, maintaining code integrity, and enabling systematic project iteration.

Decentralized NFT Marketplace Using Internet Computer Protocol (ICP) Blockchain

Jun 2024 - Jul 2024

University of Massachusetts Dartmouth

- Seamlessly integrated the decentralized token transfer system to handle NFT transactions, maintaining user balances and IDs securely.
- Created a coherent user interface using React.js, HTML, and CSS, providing smooth navigation and interactions for a better user experience.
- Leveraged ICP's blockchain to ensure secure and transparent minting, buying, and selling of NFTs, strengthening user trust and system reliability by **40%** over conventional e-commerce platforms.
- Used Motoko-based smart contracts for automated and enforced marketplace rules, improving transaction efficiency and security.
- Designed the marketplace with a scalable architecture to support a growing user base and increasing transaction volumes without compromising performance.

Dynamic To-Do List Application Development

May 2024 - Jun 2024

University of Massachusetts Dartmouth

- Developed a dynamic To-Do List web application using JavaScript, Embedded JavaScript (EJS), Express.js, HTML and CSS, ensuring seamless integration between back-end and front-end components.
- Implemented PostgreSQL for efficient data storage and retrieval, enhancing scalability and performance by **40%**.
- Deployed RESTful APIs to facilitate smooth data flow and user interactions between the front-end and back-end systems.
- Employed Material-UI components and responsive web design principles to develop a user interface that is both visually attractive and intuitive, consequently improving the overall user experience and user engagement by **30%**.
- Maintained proficiency in Git version control, orchestrating systematic feature enhancements and bug fixes, ensuring project integrity.

SKILLS

- **Front-end:** HTML5, CSS3, Bootstrap 5, JavaScript ES6, React.js, jQuery.
- **Back-end:** Express.js, Node.js, EJS, RESTful APIs, Motoko (ICP Blockchain).
- **Programming Languages:** Python (Django), Java, C, C++, PHP.
- **Databases:** PostgreSQL, MongoDB (NoSQL), MySQL (RDBMS).
- **Tools:** Git and GitHub (version control), Command Line Interface (CLI), Visual Studio Code, Microsoft Office Suite, AWS.
- **Additional Skills:** Verbal Communication, Teamwork, Software Development Lifecycle (SDLC).