





Uday kumar Gangapuram

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Education

Indian Institute of Technology, Guwahati <i>Bachelor of Technology in Electronics and Communication Engineering (CGPA: 6.97)</i> <ul style="list-style-type: none">Relevant Coursework: Data Structures and Algorithms (C++), Probability and Random Processes, Computer Networks, Digital circuits.	<i>July 2019 – May 2023</i> Guwahati, Assam, India
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Experience

Jio Platforms Limited <i>Software Engineer</i> <ul style="list-style-type: none">Developed and maintained multiple frontend components in React.js, delivering responsive, scalable, and reusable UI modules.Built and deployed Node.js (Express) APIs with MongoDB, supporting CRUD operations and data management.Contributed to Project JLD, implementing device ordering, wallet recharge functionality, and integrating a payment gateway.Led development of a configurable SCM Admin Dashboard, enabling CRUD operations for masters, user onboarding, and integration with SAP systems.Implemented advanced features including Excel template downloads (customizable reports with column/sub-column selection) and Role Configuration (role-based access with minimal payload changes).Collaborated on end-to-end integration of frontend and backend modules, optimizing user access, improving configurability, and supporting migration from SAP Fiori to an open-source React-based dashboard.	<i>Aug 2023 - Present</i> Navi Mumbai, India
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Projects

Energy Trading & Vehicle-to-Grid Platform <i>Technologies: React.js, Node.js, MongoDB, Hyperledger Fabric, MQTT, Python, Docker</i> <ul style="list-style-type: none">Collaborated with a team to develop a full-stack V2G/P2P energy trading platform, enabling peer-to-peer energy transactions between electric vehicles with real-time monitoring and automated execution.Worked on frontend development in React.js, designing a user-friendly interface and implementing seamless frontend-backend integration through a Node.js API gateway.Contributed to designing the system architecture and integrating a Hyperledger Fabric blockchain network with Go-based smart contracts for secure transaction recording, authentication, and audit trails.Assisted in building a real-time energy monitoring system using the MQTT protocol and Python, enabling live telemetry data, battery capacity tracking, and automated transaction triggers.Supported the development of an analytics dashboard with Chart.js visualizations for trading metrics, transaction history, and geospatial user insights, along with a scheduler using cron jobs for automated energy transfers and role-based access.	<i>Dec 2024 - Jan 2025</i> github
Instagram App Clone <i>Technologies: Flutter, Dart, Firebase Authentication, Firebase Firestore, Firebase Storage</i> <ul style="list-style-type: none">Collaborated with a team to build a fully functional Instagram clone using Flutter, featuring a dynamic and responsive user interface.Contributed primarily to the frontend development, focusing on widget composition, UI design, and smooth navigation flows.Implemented core features including account creation and editing, image posting, follow/unfollow functionality, and integrated Firebase as the backend database for real-time data synchronization.	<i>July 2021</i> github
File Zipper and Opener <i>Technologies: C++, Huffman Coding, Min Heap, Binary Tree</i> <ul style="list-style-type: none">Developed a file compression and decompression tool using the Huffman coding algorithm to efficiently reduce text file sizes.Implemented core data structures including Min Heap and Binary Tree to generate unique binary codes for distinct characters based on frequency of occurrence.Designed functionality to compress input text into a smaller encoded file and accurately reconstruct the original file through decompression.	<i>Dec. 2021</i> github

Technical Skills

Languages: C++, C, JavaScript, Python
Technologies: HTML, CSS, ReactJS, Redux, Android Studio, NodeJS, ExpressJS, Django*, Google Firestore*
Database Management: MySQL, MongoDB
Tools: Git, Microsoft Azure, Figma, LaTeX

Achievements and Extracurriculars

- BYD EV hackathon:** Selected among the top **10** teams out of 3191 teams, for the innovative project "P2P Energy Trading of EVs Using Blockchain Technology".
- HackerRank 5-Star Badge:** Reached Gold level in programming of problem-solving section of HackerRank platform.
- Web Development Workshop:** Attended a 2-week workshop on Web Development in Django Framework conducted by Student's Web Committee of IIT Guwahati.