Aryavhir Koul

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EDUCATION

Jawaharlal Nehru Technological University Hyderabad, Jagtyal, Telangana, India　　　　Dec 2020 - June 2024
Bachelor of Technology in Information Technology

K.C. Public School, Jammu, India
Schooling under CBSE Board

WORK EXPERIENCE

Software Development Engineer | Hydro Online ⎘　　　　August 2024 – Present

Ad Platform Engineering

- Developed JavaScript-based, OpenRTB-compliant ad banner script with dynamic placement and real-time viewability tracking
- Built Advertisers Portal using React.js, TypeScript, and Go for campaign management
- Developed Publisher Rewards Calculation Website using Go and React for transparent compensation

Payment Integrations

- Developed Web Application using React.js and Web3 integration for cryptocurrency purchases via MetaMask
- Integrated MoonPay SDK and developed methods for onramp functionality as crypto payment option
- Designed and implemented PayPal webhook integration and frontend SDK for seamless payment processing

Website Development & Management

- Managed and expanded Hydro Online website using Webflow, including new pages and enhanced functionality
- Optimized website structure and navigation to improve accessibility and user engagement
- Collaborated with designers and content creators to ensure consistent branding and seamless UX

Decentralized File Transfer Project (Current)

- Implementation of decentralized file transfer system focused on secure, peer-to-peer data sharing

> **Note:** *Methodologies and tools used include Slack,Bitbucket,confluence,Hubstaff,Scrum Agile and Jira*

PERSONAL PROJECTS

Blockchain Based Voting App ⎘　　　　Feb 2024 - Apr 2024

- Implemented secure voting mechanism with **smart contracts** using **Solidity** for recording votes via **Remix Studio**
- Deployed contract on **Sepolia ETH** test network to record vote counts while enforcing privacy
- Tested deployment through **Ganache** and designed intuitive **React-based** UI with streamlined party selection
- Integrated robust error handling for invalid login attempts, enhancing system integrity

IoT-based Automatic Plant Watering System using Arduino UNO　　　　Mar 2023 - Nov 2023

- Engineered **Arduino-based** smart irrigation system with soil moisture sensing for automated plant watering
- Implemented user-configurable moisture thresholds, optimizing water usage and plant health
- Integrated **water pump control system** for precise, automated irrigation based on real-time soil conditions
- Incorporated LCD interface for **live monitoring** of soil moisture levels and system status
- Developed **modular, scalable code** for system control, enhancing maintainability and future expansion

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Go, Swift, React Native

Frontend Technologies: React.js, HTML5, CSS3, SCSS

Backend Technologies: Node.js, RESTful APIs

Development Tools: Git, Figma, LaTeX

Database & Blockchain: SQL, MetaMask Integration, Solidity

Cloud Platforms: Amazon Web Services

CERTIFICATIONS (ONLINE COURSES)

- **Programming Fundamentals in Swift** ⎘
- **React.js** ⎘
- **Mobile Development and JavaScript** ⎘
- **Principles of UX/UI (Figma)** ⎘
- **Advanced Programming in Swift** ⎘
- **Version Control** ⎘
- **Introduction to iOS Mobile Application Development** ⎘