

## EDUCATION

### Illinois Institute of Technology

Master of Science in Computer Science

Present

Chicago, Illinois

### Vellore Institute of Technology

Bachelor of Technology in Computer Science and Technology, (8.78/10.0)

July 2021

Amaravathi, India

#### Relevant Coursework

Machine Learning, Artificial Intelligence, Computer Networks.

## WORK EXPERIENCE

### Illinois Institute of Technology

September 2024 – Present

Hawk's Nest Graduate Assistant, Part-Time

Chicago, Illinois

- Optimized CRM processes using Salesforce Lightning for application and admission support, resulting in a 60% increase in case resolution rates and 50% faster ticket response times
- Developed an AI chatbot integrated with university data using Retrieval-augmented generation (RAG), leading to a 40% reduction in student wait times and enhancing user satisfaction

### Bytecrafts

September 2023 – August 2024

Founder, CEO

Davangere, India

- Lead the design and development of proprietary products, using modern technologies like React Native, MERN stack, and AWS to create scalable and efficient solutions. Focus on addressing industry-specific challenges in sectors such as healthcare, education, and finance, resulting in successful deployment of multiple high-impact applications.
- Deliver customized software solutions for a diverse client base, including startups and established enterprises. Manage projects end-to-end, from requirement gathering and design to development and deployment. Specialize in building cross-platform mobile apps and dynamic web applications, ensuring seamless integration with existing systems and delivering exceptional user experiences.

### Kristal.ai

July 2022 – September 2023

Mobile Application Developer, Full-Time

Bangalore, India

- React Native Development: Improved user engagement by 25% through the development and maintenance of Android and iOS applications.
- Agile Practices: Increased project efficiency by 30% by applying agile methodologies.
- Quality Assurance: Reduced application crash rates by 15% with rigorous testing and debugging.
- Resolved critical client challenges by facilitating productive interactions, exceeding expectations, and maintaining a 95% client satisfaction rate. Led comprehensive project documentation and deliveries through dry runs, consistently meeting tight deadlines

### Kristal.ai

January 2022 – July 2022

Software Engineer Intern, Internship

Bangalore, India

- Implemented advanced UI components and animations using React Native, improving the app's visual appeal and usability, and reducing render times by optimizing component structure.
- Developed and maintained mobile applications for both iOS and Android, utilizing React Native, Redux for state management, and integrated native modules for features like push notifications and device-specific APIs
- Worked closely with backend developers to integrate RESTful APIs, conducted rigorous testing using Jest and React Native Testing Library, and streamlined the deployment process using tools like Mixpanel and JIRA.

## TECHNICAL SKILLS

**Languages** : JavaScript, Python, Java, SQL, dart

**Technologies** : MERN, React.js, Next.js, React Native, Flutter, Express.js, Node.js

**Developer Tools** : AWS, Xcode, Android Studio, Tensorflow, Git, JIRA, Visual Studio Code, Vercel, Render, Microsoft clarity.

**Database** : MySQL, Oracle, MongoDB

**Soft Skills** : Productive, Efficient, Collaborative, Abstract Thinking, Problem-Solving, Team Leader.

## PROJECTS

**Release** | React.js, express.js, Node, AWS EC2, MongoDB, Microsoft clarity.

- Engineered a HIPAA-compliant platform integrating advanced digital imaging, clinic setup, doctor addition, and patient data management, facilitating seamless X-ray capture, direct delivery, and secure sharing among clinics, doctors, and patients.
- Implemented features like referral slip generation, doctor activity reports, and upcoming invoice tracking, enhancing workflow efficiency and reducing manual paperwork, with applications in streamlining dental clinic operations and improving patient care.

**Namnews** | Next.js, Express.js, Node.js, MongoDB, AWS EC2

- Designed a scalable digital platform using Express.js and Next.js, enabling local newspapers to establish an online presence, manage digital content, and integrate social media channels for wider audience reach. Implemented SEO optimization and analytics dashboards to track reader engagement and website traffic.
- Empowered newspapers to generate passive income through subscription models and ad placements, offering tools for brand building and audience engagement, effectively countering the decline of print readership and supporting sustainable digital growth.

**GiveMore – A donation Based Community Marketplace for COVID-19** | Android Studio, Flutter, Firebase, dart

- Designed and developed a cross-platform mobile application using Flutter and Firebase to connect donors with the financially underprivileged, medical workers, NGOs, and hospitals. Implemented real-time data synchronization, user authentication, and inventory management. Integrated an IBM Watson virtual assistant to provide users with instant answers to COVID-related queries and assist distributors with optimized navigation routes.
- Secured a Top 16 finalist position out of 26,478 participants in a national competition, showcasing innovation and community impact. The platform facilitated safe and efficient distribution of essential supplies, promoted temporary employment opportunities, and adhered to social distancing guidelines, contributing significantly to community resilience during the pandemic.

**SmartASL – Real-Time Sign Language Interpreter** | Android Studio, Tensorflow, Pytorch, OpenCV

- Developed an Android application that translates American Sign Language (ASL) into text and speech in real-time, aiming to bridge the communication gap for 70 million people with hearing impairments worldwide. Implemented deep learning models for gesture recognition, achieving high accuracy, and created an interactive website to teach ASL.
- Enhanced the app to support multiple languages using Google API, with plans to include various sign languages. Designed the app to function offline and without additional hardware, ensuring accessibility for a broader audience.

## PUBLICATIONS

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**Automated public transport system using iot** | *Internet of Things (IoT), GPS Tracking, Data Analytics, Cashless Payment Systems.*

- Developed an IoT framework with GPS modules and cloud-based data processing for real-time bus tracking and automated scheduling, enhancing commuter experience and operational efficiency.
- Implemented RFID-based cashless payment and data analytics for efficient route optimization, reducing wait times and fleet disorganization; applicable for smart city initiatives and reducing urban traffic congestion.

**Automated Plant Robot** | *Raspberry Pi, Python, Sensors (LDR, Ultrasonic, Soil Moisture), Solar Energy, Kaggle Dataset.*

- Built a mobile platform using Raspberry Pi, LDRs, soil moisture sensors, and ultrasonic sensors for automated watering, sunlight tracking, and obstacle avoidance; powered by solar panels for sustainable operation.
- Ideal for urban gardening and agricultural automation, reducing manual labor and conserving resources, with potential applications in drought-prone regions and smart greenhouses.

## ACHIEVEMENTS

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### **Crack the COVID-19 Crisis**

*Top 16 finalists out of nearly 4000 teams in Hackathon*

**March 2021**

*Nascoom, IBM, India*

### **Solve4Bharath**

*Finalists at hackathon held by Indian Institute of Science*

**September 2020**

*IISc, Bangalore, India*

### **MLH Build Day**

*Winner of Best Innovation hack, Vellore Institute of Technology*

**August 2019**

*Amaravathi, India*