

# HANUHITHA DONDAPATI

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## EDUCATION

- Indiana University Bloomington**- Master of Science in Computer Science *January 2022 - December 2023*  
*Relevant Courses:* Applied Algorithms, Applied Machine Learning, Software Engineering, Database Design, Computer Networks.
- ICFAI University**- Bachelor of Technology in Computer Science and Engineering (*GPA: 8.98/10*) *August 2016 - August 2020*  
*Relevant Courses:* Data Structures & Algorithms, Distributed Systems, Project Management, Database Management System, Operating System, Compiler Design, Big Data, Web Technologies.

## TECHNICAL SKILLS

- Programming Languages:** Python, C, C++, C#, Java, JavaScript, TypeScript, HTML5, CSS
- Software Tools:** Jira, Jasmine, Postman, Git, GitHub, Figma, Docker, Firebase, Auth, Visual Studio code, Jupyter.
- Development:** Angular, Nest JS, Flask, Express, ReactJS, Node.JS, REST web services, Scrum, MapReduce, Pytorch.
- Database:** MongoDB, MySQL, Neo4j.

## RELEVANT EXPERIENCE

- Software Developer - Research Assistant** | *CNS, Indiana, USA* *August 2022 – Present*
- Worked on NIH-funded HuBMAP project developing a global atlas of the human body at the cellular level.
  - Designed behavioral components using Angular and generated storybooks which isolated components leading to a 30% reduction in development time as well as being 100% reusable for future visualization.
  - Handled state management using NGXS which improved the performance by 20%.
- Software Developer - Product Development** | *Apollo Tele Health Services, Hyderabad, India* *June 2020 – December 2021*
- Mede-Consultation App - A progressive web app Introduced slot-based booking via node-scheduling for 5000+ patients seeking video/voice consultations with specialized doctors through WebRTC and Twilio platforms. Automated specialty-based case sheet generation and prescriptions according to doctor's recommendations allowing for a 12% improvement in efficiency.
  - Covid Care App - Telecare website for 1000+ global doctors to serve millions of patients affected by covid. Implemented emergency/urgent care consultations, and authentication using Firebase Login allowing patients to book slots in 20% less time.
  - Billion Hearts Beating App - Project against heart disease aimed at orphanages and nursing homes. A website featured modules on Medication inventory for every facility in India, and an admin to manage the indent status.
  - Developed backend services for orders, appointments, blob, and IAM services that improved cost-efficiency for multiple applications by 65%.
- Software Development Intern** | *Apollo Tele Health Services, Hyderabad, India* *January 2020 – June 2020*
- Health Kiosk: Created a complete kiosk to check patient vitals/tests and medical history. Included Device Integration, Package Integration, Billing System Integration, Payment Integration, Appointment Integration, Mede Lab Integration, and Kiosk Order API to reduce the development time by 20% and save patient wait time by 40%.
- Web Development Intern** | *Wipro Limited, Hyderabad, India* *May 2018 – July 2018*
- Developed a banking website for Andhra Bank to provide net banking services for account holders - transactions, add/cancel deposits, balance inquiries, and 24/7 customer support using Java for an interface.
  - Built a web application, a leave management website, for employees, leave allocation for 365 days using Java, MySql, and PHP using TCP/IP protocols.

## PROJECTS

- Cloud-Based Application for Model Interpretability Using Class Activation Maps** *January 2023 - Present*
- Developing a computer vision based web application for model interpretability using Relevance scored-based CAM.
  - Leveraging AWS cloud services for deployment.
  - Technology Stack:* Python, Streamlit, AWS EC2, AWS S3, AWS SageMaker, PyTorch.
- Patient & Health Insurance Application - CureNsure** *December 2022*
- Built an innovative platform for customers through easily accessible healthcare coupled with financial security. Prospective insurance programs and health practitioners provide compatible services which increased customer acquisition by 35%.
  - Secured an 'A+' for the project. [GitHub](#).
  - Technology Stack:* Python, Flask, ReactJS, Firebase, MongoDB, Netlify.
- Food Ordering & Delivery Platform - HungerHunt** *March 2020*
- Project to order food from nearby restaurants by adding a tracking system with a 100% no-touch policy during covid.
  - Technology Stack:* Java, PHP, MySQL, HTML5/CSS, Bootstrap.
- Fooling Convolutional Neural Networks by Inserting Adversarial Patches on Images** *December 2019*
- Designed an image patch that can deceive neural networks with 85% accuracy when the patch size is less than 5% image.
  - Technology Stack:* Python, Keras (TensorFlow), OpenCV, sklearn, NumPy, Jupyter.