

# Zishan Ahmad

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Portfolio: [spiral-memory.netlify.app](https://spiral-memory.netlify.app)

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## EDUCATION

- Indian Institute of Information Technology** Kottayam, India  
• *Bachelor of Technology - Information Technology; SGPA: 9.67; CGPA: 9.17* November 2020 - Present  
*Courses: Analog and Digital Circuits, Data Structures, Computer Networks, Soft Computing, Data Warehousing and Data Mining, Artificial Intelligence, Machine Learning, Software Design Patterns, Parallel and Distributed Computing, Microprocessors, and more.*
- Lord Buddha Public School** Aurangabad, Bihar  
• *AISSCE; Aggregate: 83.6 %* Apr 2018 - March 2019
- Sun Beam Public School** Dehri On Sone, Bihar  
• *Secondary School Examination ; CGPA: 10* Apr 2016 - March 2017

## SKILLS SUMMARY

- **Languages:** C, C++, Javascript, Python, HTML, CSS
- **Libraries:** NodeJS, ReactJS, ExpressJS, PyTorch, Numpy, Scikit-learn, Matplotlib, Imblearn, DEAP, HF Transformer
- **Tools:** GIT, NPM, MongoDB, Postman, Docker
- **Platforms:** Linux, Windows, AWS, Colab, Arduino
- **Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management
- **Languages:** English, Hindi, Urdu

## EXPERIENCE

- Indian Institute of Technology Hyderabad** Hyderabad, India  
• *Summer Intern (SURE)* May 2023 - Present
  - Collaborating with the team to enhance and contribute to the growth of research in PP5GS by implementing it on existing 5G testbed.
  - Acquiring comprehensive knowledge and skills in technologies including Docker, C++ networking libraries, 5G architectures, Wireshark, and other related tools.

## PROJECTS

- **Memory Lane - Helping Alzheimer's patients remember (Deep Learning)** : MemoryLane is a project that uses facenet pytorch and hugging face transformers to create a voice-based interface for Alzheimer's patients. By detecting voice commands and recognizing faces, the system helps patients remember important details such as names and addresses of their relatives. **Tech Stack: Pytorch, HuggingFace Transformers & FaceNet** (February '23)
- **International Customer Credit transfer API - A MT to MX format Converter (Web Dev : Backend)**: SWIFT has directed that PACS008(MX) format is more readable and efficient as compared to MT103(MT) format for cross border transactions, So this API will make the conversion on the go. Application was built using Microservices Architecture. **Tech Stack: NodeJS, Express JS, Javascript, AWS, Swagger & JMeter** (September '22)
- **Travel Time (MERN Stack Web APP)**: It is a web application where people can share their travel experiences and can also get insights about other places which will shape their travel plan better. **Tech Stack: HTML, CSS, ReactJS, NodeJS, & MongoDB.** (June '22)
- **PlayAround (Web Development, Community Chat)**: A web chat application that helps to connect people without worrying about their privacy. **Tech Stack: HTML, CSS, Javascript, NodeJS** (April '21)
- **Bluetooth Controlled Home Automation (Arduino, Networking, IoT)**: Designed Bluetooth-based home automation system controlled by smartphone app to switch home appliances ON/OFF. **Tools: Arduino, HC-05 Bluetooth Module, C, USBASP and Other Circuit Components** (September '18)
- **Home Security System (Arduino)** : Created from scratch a security system using PIR motion sensor. It detects movements and displays status on LCD along with an alarm. **Tools: C, Arduino, PIR Sensor, LCD, Fritzing** ( 10 Oct '14)

## CERTIFICATIONS AND AWARDS

- First Prize Winner at NEST Digital Hackathon - Sept, 2022
- React, NodeJS, Express & MongoDB : The MERN Fullstack Guide by Academind - Udemy Certificate
- Participated at Social Good Hackathon- October, 2021
- Engaged at Codathon Conducted by MANIT - Jan, 2021

## VOLUNTEER EXPERIENCE

- **Webmaster & Core Member at ACM Student Chapter** Kerala, India  
• *Handles Social Media, Writes Contents & Conducted webinars impacting 500+ Students.* Jan 2022 - Present
- **Event Organizer at ENLACE, IIIT Kottayam** Kerala, India  
• *Organized events, designed brochures and posters, managed and coordinated multiple events.* Dec 2021 - Present