

# Akshat Saxena

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## EDUCATION

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### Bachelor of Technology

2024 | Andhra Pradesh, Chittoor, India

Indian Institute of Information Technology Sricity

Relevant Coursework: Data Structures and Algorithms, Object-oriented programming, Database Management System, Internet of Things, Computer and Communication Networks.

## PROFESSIONAL EXPERIENCE

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### Android Application Developer

02/2022 – 04/2022

TechStack: Kotlin, Rest API, Android Studio

San Francisco bay area, California

- Worked in a agile team oriented group and developed a robust app for identifying the ad on Air through audio detection, on paper using Qr code and on banner using image recognition.
- Improved the older version's UI/UX and improved app performance by 40-45% by implementing MVVM architecture, Coroutines, Flows etc.

App link: Listen app [↗](#)

## SKILLS

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**Languages** (Proficient with C, C++ and Familiar with C#, Java, Python, Embedded C, Kotlin, Solidity, Matlab, Git, Assembly, Linux, Unix, SQL(relational database), HTML(frontend), unit test, problem solving, Eagle(PCB Design)),

**Frameworks** (Django(Frontend+Backend), Android Studios(Frontend)),

**Database management** (MySQL, Firebase, Postgresql, MonogoDB)

## PROJECTS

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### Mapty3D [↗](#)

TechStack:C#, Unity, NodeJs, MongoDB

- Build a 3D Terrain visualizer + simulator using height maps with the help of nextzen Api using Unity 3D.
- Simulates natural disasters such as floods and earthquakes and their intensity.
- Predicts earthquake and flood prone regions with an accuracy of 80-82%.

### Simulation of Routing Information Protocol [↗](#)

TechStack:Tcl Script, Tcp, Ns2

- Build on the Ns2 environment (network programming) using tcl Scripts.
- Uses Transmission control protocol(TCP/IP) for connecting the routers and File transfer Protocol(FTP) for sending the traffic.

### Attendex [↗](#)

TechStack:Kotlin, Android Studio

- Network layer 3 which implements MAC address and maps with the students registration number.
- Successfully tested the app over a batch of 300 students with 95% accuracy.

### CLI Shopx [↗](#)

TechStack:C++, OOPs

- Created a robust Command line tool interface to manage all the necessary domains to run a shopping mall.
- Uses Standard template library(STL) and core concepts of Object oriented programming to optimize the normal code by 68%

## ACHIEVEMENTS

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### Emid's Hackathon Winner 2022 [↗](#)

- Created a robust business model and standard prototype to digitize handwritten prescriptions.

### ICPC Regionalist 2022

- Amritapuri, Qualified to Amritapuri regionals under the team of Team RD.

### Algorithmic Toolbox [↗](#)

- Learned how to solve computational problems, designing new algorithms, and implementing solutions efficiently.

### Solved 1000+ Problems [↗](#)

- leetcode and other compitive coding platforms.