

## Dr.M.V.Sethu Meenakshi, Ph.D.,

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### Skills:

- Technical:
  - Android - components, database, Rest API, Bluetooth modules
  - Core Java - OOPS concept, operators, exceptions handling, collections
  - Spring Boot
  - Data Structures and Algorithms - Arrays, Linked list, Trees
  - Firebase - Authentication, Real time Database
  - Playstore Release - alpha, beta, Gamma release, key store, crash logs
- Tools: Android Studio, Eclipse, IntelliJ idea, Springtool Suite
- Zoho - Zoho CRM, Zoho Books

### Education:

- Ph.D, Applied Mathematics, St.Xavier's College, Palayamkottai
- B.Ed, TVS Teacher Training Academy
- M.Sc, Applied Mathematics, Thiagarajar College of Engineering
- B.Sc, Mathematics, Sri Sarada College for Women, Tirunelveli

### Experience:

Android Developer, Meganar Technologies	July 2024 - Present
Android Developer Intern, Meganar Technologies	Aug 2023-June 2024
Assistant Professor, Fatima College, Madurai	Jul 2021 - Dec 2023
Mathematics Teacher, Sri Aurobindo Mira Matric Hr Sec School	May 2016 - May 2018
Mathematics Teacher, Allwin Matric Hr Sec School	Sep 2015 - Apr 2016
Mathematics Teacher, TVS Matric Hr Sec School	Jun 2014 - Feb 2015

### Project:

Smart Home :

- What's is the project about?
  - ☐ This project involves developing a smart home automation system using Android Java, Firebase, Arduino and Spring Boot.
  - ☐ It enables users to remotely control and monitor home devices such as lights and appliances through a mobile app.
  - ☐ The Smart Home app was launched on the Google Play Store, showcasing its functionality and user-friendly interface.

- What I did?
    - ☐ As the team lead, I oversaw the entire project lifecycle, from initial concept through development to the successful release on the Google Play Store.
    - ☐ Developed and released two distinct applications—"Maghi", a sample to-do list app, and "**com.meganar.smart**", a smart home automation system.
    - ☐ For "**com.meganar.smart**", I implemented device pairing functionalities, enabling users to view and manage paired devices, navigate to their respective control ports, and perform actions like editing or deleting devices.
  - How it's impacted?
    - ☐ The successful release of these apps on the Google Play Store significantly benefited the company by enhancing its product portfolio and showcasing our technical expertise.
    - ☐ Successfully launching both apps demonstrated my ability to take projects from initial concept through to deployment. It highlighted my skills in Android development, user interface design, and app deployment, showcasing my expertise to potential employers and users.
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#### **Publications:**

- "Analytical Estimates of the Effect of AM Signal in Nonlinearly Damped DVP Oscillator"
- "Homoclinic Bifurcation and Chaos in a Nonlinearly Damped DVP Oscillator under Multi-Frequency Excitation."