

# Shegin Ismail AP

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## SUMMARY

Graduate developer skilled in solving real-world problems through innovative software solutions. Proficient across diverse domains with strong soft skills, eager to contribute to impactful projects in software and embedded systems.

## EDUCATION

**Bachelor of Technology(Hons.) in Information Technology** 2020 - 2024  
Government Engineering College Idukki, APJ Abdul Kalam Technological University CGPA: 8.67/10

## RELEVANT COURSEWORK

• Python • OOPS • DBMS • Web Application Development • IoT • Data Science • Data Structures

## EXPERIENCE

**Junior Python Developer, Druv 360** 09/2024-Present  
Serving as Backend Developer working on Web applications using Python-Django REST Framework

## INTERNSHIPS

**1) Data Science Intern, Unified Mentor** 08/2024-09/2024  
• Analyzed complex datasets on road accidents and tobacco mortality, identified trends, and reduced outliers to 0%, delivering impactful insights.

**2) Artificial Intelligence Intern, MathWorks & AICTE** 05/2023-09/2023  
• Selected as one of 1,000 students for prestigious internship, gaining expertise in MATLAB, DL, signal processing, and ML.

## FELLOWSHIP

**Graduate Research Fellow, IIT-Madras Pravartak technologies** 12/2023-06/2024  
• Exceptionally chosen as the **sole Graduate Research Fellow in my class and one of 16 in the college**, honored for academic excellence and an innovative concept idea.  
• **Secured a ₹42,000 grant** by developing proposals outlining project objectives, methodologies, and expected outcomes.

## PROJECTS

### 1. School Management System

- Developed Administrative School Management system with Role Based Access Control using Python Django REST Framework
- Framework: Python Django REST • API Testing: Thunderclient

### 2. Smart Farming App (Flutter) and Greenhouse Prototype Development

- **Spearheaded a team of 4** in developing a Smart Farming App and Greenhouse prototype using Flutter and Python.
- Integrated ML, DL, IoT with Python and C++(variant) for crop prediction, cost estimation, pest/weed identification, and remote greenhouse control, **achieving 80-100% accuracy** across diverse applications.
- Front-End: Flutter • Model Creation: Python
- Back-End: Firebase, Flask • IoT: C++(variant), ESP8266, Sensor

### 3. Botnet Detection System (Tool, Simulated App and Prototype)

- Deployed a Live Mirai Botnet Detection System using ML in Python, achieving nearly **100% accuracy** in detecting cyber threats in smart home applications with live simulation.
- Front-End: Tkinter(tool), Flutter(Simulation) • Back-End: Firebase, Python • IoT: C++(variant), ESP8266, Sensors

### 4. Forest Fire Detection System(App and Prototype)

- Executed an advanced Forest Fire Detection System by integrating Image Processing and IoT technologies using Python leading team of 4.
- Front-End: Flutter • Back-End: Firebase, Python, JSON • IoT: C++(variant), ESP8266, Sensors, ThingSpeak

## 5. Medicine Reminder Box Development using IoT

- Built an IoT-enabled Medicine Reminder Box under the LEAP (LP201) program, supported by the IIT-Madras Incubation Cell.
  - Engineered to assist elderly individuals with Alzheimer's and dementia in managing their medication schedules.
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## SKILLS

### TECHNICAL SKILLS

- Programming Languages: Python, C, Java
- Backend Framework: Python-Django-Rest
- Database Management :SQL, Firebase
- Application Development: Flutter
- Designing: HTML, CSS, Canva
- ML/Data Science: Python ML libraries, Tableau
- IoT: ESP32, ESP8266, ThingSpeak, Arduino IDE
- Software Development Management: SRS, SDD, SOW, SDLC, Git, Agile

### SOFT SKILLS

- Communicative Skills
  - Creative Thinking
  - Problem-Solving
  - Content Writing
  - Leadership
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## COURSES & CERTIFICATIONS

- Career Essentials for Generative AI - LinkedIn & Microsoft
  - Python & Django - Avodha Pvt.Ltd
  - Industrial Standard Development Training - LearnBuds
  - Product Engineering for Real Life Problems - IIT Madras Incubation Cell
  - Work Readiness Program -KKEM
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## POSITION OF RESPONSIBILITY/VOLUNTEERING

- Led the WoW 3.0 initiative as WiP of IEEE Power Energy Society in college, **first event to be co-hosted.**
  - Ranked among the **top 50 coordinators** as Campus Ambassador for Tatva at NIT, Calicut.
  - Organized and led an industrial visit to Network Bulls Institute, Gurgaon, for 56 students.
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## ACHIEVEMENTS

- Triumphed in multiple extempore and writing competitions at inter and intra-college levels..
  - **Won first prize** for the Smart Farming App and conservatory model at the IEEE Project Expo in the Computer Science/IT department.
  - Earned an Honors degree in B.Tech, **achieved by only 3% of students in the university year of 2024.**
  - Achieved First Class with Distinction and **recognized as the Batch(20-24) Topper** in IT Dept of College.
  - Attained cash award and merit certificate from NFTW **for scoring 90% and above** in all subjects in 12th examination.
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## INTERESTS

- App/Web Development
  - Data Science & ML
  - Generative AI
  - IoT & Robotics
  - Software Engineer/Developer
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