P.Hemaprakash

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OBJECTIVE

Aspiring Software Development Engineer (SDE-I) with strong programming fundamentals, hands on project experience, and solid understanding of algorithms, data structures, OOPS, and backend development. Seeking to contribute to scalable systems and innovative software solutions as an SDE.

EDUCATION

B.Tech – **Electronics and Communication Engineering (ECE)**
Saveetha School of Engineering, Chennai
2020 – 2024

TECHNICAL SKILLS

Languages: Java, Python, C, JavaScript
Core CS: Data Structures, Algorithms, OOPS, DBMS,OS,CN
Web/Backend: Node.js, SQL, MySQL, REST APIs
Tools: GitHub,VS code, Postman, Android Studio, Figma, Selenium
Machine Learning: TensorFlow/Keras, CNN Models, Data Preprocessing

SDE-FOCUSED PROJECTS

Automated job Application System (java, Selenium, MySQL)
Sep 2025 - Oct 2025
- Built an end to end automation engine that auto-applies to jobs across multiple portals using Selenium.
- Implemented reusable login modules, dynamic selectors, and error handling for stable automation.
- Integrated SQL to store login credentials, application history, and workflow logs.
- Designed ATS based job matching algorithm to identify high relevance openings.
  Tech: Java, Selenium, SQL, Automation Frameworks

Efficient Detection of Animal Intrusion Using Deep Learning (Python, CNNs)
Jan 2024- Apr 2024
- Developed and compared deep learning models (Xception, DenseNet169, VGG16, ResNet50).
- Achieved 95% accuracy improvement using enhanced preprocessing and CNN optimization.
- Trained and evaluated on Google Colab using TensorFlow/Keras and SPSS for statistical testing.
  Tech: Python, TensorFlow, Keras, CNN, Data Augmentation

EXPERIENCE

Full Stack Developer Intern - SIMATS
Oct 2023 - Mar 2024 | Chennai
- Developed cross platform medical application (Android + iOS) for patient monitoring.
- Built frontend using Android Studio (Java/Kotlin) and backend using PHP + MySQL.
- Improved app performance and reduced load time, raising user satisfaction to 85%.

Freelancing API Developer - Exchange App
Jan 2025 - Feb 2025
- Built REST APIs for product exchange flow: listing, verification, secure data sharing.
- Designed relational database schema ensuring secure and clear transaction workflows.

Freelancing Mobile App Developer - Pet Welfare App
Dec 2024 - Feb 2025
- Built Android app for pet care with appointment booking, profile management, and maps integration.
- Improved UI/UX accessibility and user engagement by 20%.

ACHIEVEMENTS AND CERTIFICATIONS

- Paper presentation - St. Peter's College of Engineering (2024)
- UI/UX Design - Future Learn (2024)
- Python Certification - Mind Luster (2024)
- Contributor at STAR SUMMIT World Record - Saveetha University

PERSONAL SKILLS

- Problem solving
- Analytical thinking
- Ownership
- Clean and Modular coding
- Fast learning