



Anand Sivakumar

EXPERIENCED SENIOR APPLICATION SOFTWARE ENGINEER WITH
ADVANCED SKILLS IN PYTHON, JAVA, AND AI.

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SUMMARY

Dynamic Senior Application Software Engineer with extensive expertise in Python, Java, and AI, renowned for creating user-centric applications like DigiForm which revolutionized form-filling efficiency and accessibility. Proven capability in AI Development, API Development, and AWS, dedicated to driving forward software innovation and achieving measurable outcomes in technological advancements.

WORK EXPERIENCE

**Applied Automation
System Private Limited**
Coimbatore, India
Feb 2016 – Nov 2024

Senior Application Software Engineer

- Developed ProPreparatoryLNX, a robust Spinning Online Production Management System, showcasing innovative solutions and software development skills.
- Contributed to PROLNX AIO200 by developing server-side functionality and testing utilities, emphasizing problem solving and performance improvement.
- Worked on various Android projects for IoT and home automation, demonstrating out-of-the-box thinking and design solutions.
- Participated in the development of PSA MOP IIOT for monitoring oxygen production across India, highlighting requirements evaluation and team collaboration.
- Developed Essence AI to streamline codebase understanding and exploration, contributing to project success.
- Created PrepyAI for enhancing exam preparation through high-quality practice questions, focusing on deadline delivery.
- Designed DigiForm, an AI assistant for simplifying form-filling processes, reflecting innovative solutions.
- Contributed to 2ndCareers, connecting experienced professionals with job opportunities, showcasing team collaboration and problem-solving abilities.

EDUCATION

**DG Sri Ramakrishna
Engineering College**
Coimbatore, India
Jun 2012 – May 2015

Bachelor of Engineering in Electronic and Communication Engineering

Graduated with a CGPA of 7.3 in Electronic and Communication Engineering.

**K.S.Rangasamy Institute of
Technology**
Trichengode, India
Jun 2009 – Apr 2012

Diploma in Electronic and Communication Engineering

Achieved an aggregate percentage of 90.5 in Electronic and Communication Engineering.

**Yuvabharathi
Matriculation Hr. Sec
School**
Salem, India
Jun 2008 – May 2009

Secondary School

Completed 10th grade with an aggregate percentage of 65.

SKILLS

- **Skills :** Python, Java, Php, HTML, PLC Programming, AI Development, AWS, Github, Docker, Sql, Database management, Digital ocean deployment, Flask Framework, Api Development, OpenCV, Pyspark

PROJECTS

2ndCareers ○ Backend Lead

2ndCareers connects professionals over 50 with organizations seeking part-time leaders and contributors in fields like Sales, Technology, HR, Finance, and Marketing. The platform offers project-based work, temporary roles, and revenue generation opportunities, promoting modern work models beyond traditional employment. Additionally, it fosters a community for individuals over 50, providing a marketplace for learning and career advancement, supported by partners offering coaching and training services.

DigiForm ○ Developer

DigiForm is an AI assistant designed to simplify the form-filling process for accessing financial services, applying for admissions, and availing healthcare. Recognizing the barriers posed by complex forms, especially in regions with limited literacy, DigiForm aims to enhance efficiency and inclusivity. By leveraging AI technology, DigiForm streamlines the task of completing forms, making it faster, less tedious, and less error-prone. This tool addresses the common challenges of form filling, ultimately improving user experience and accessibility.

ESSENCE AI ○ Developer

Essence AI streamlines code base exploration with a natural language chat feature, helping developers quickly understand repository structure. Key features include easy onboarding, informed repository exploration, and powerful semantic search for quickly finding code snippets, boosting productivity.

PrepyAI ○ Developer

PrepyAI enhances exam prep by generating high-quality practice questions from your textbook. It boosts retention by up to 50% through self-testing. Key features include seamless textbook integration, customizable question options, diverse multiple-choice questions, and instant feedback to track progress and identify improvement areas.

PSA MOP IIOT ○ Developer

The Pressure Swing Adsorption (PSA) Medical Oxygen Plant is a government initiative to monitor oxygen production in India. At each site, a PLC collects data on oxygen pressure, purity, and flow every five minutes, which is sent to an IIoT controller and then to a cloud server via MQTT. This data is stored in a database and displayed on a web application for easy monitoring and access.

ANDROID PROJECTS ○ Developer

I worked as an Android developer, where I created an Android app for an IoT project. Additionally, I developed an Android app for home automation using Android Studio IDE, focusing on enhancing user experience and functionality.

PROLNX AIO200 ○ Developer

The PROLNX AIO200 utilized data from the AIO200 embedded board, catering to smaller mills that may not afford traditional PLCs. Developed by our R&D team, this board acted similarly to a PLC. I contributed by developing the server-side functionality using Java and creating a utility in Java Swing for testing purposes.

ProPreparatoryLNX ○ Developer

The ProPreparatoryLNX is a robust Spinning Online Production Management System designed for departments ranging from Blow-Room to Ring Spinning and Auto Cone Winding. I developed a dynamic monitoring screen using data from a PostgreSQL database, employing both Java and JavaScript for implementation.