

# NANDAKUMAR CHINNASAMY

## Software Developer

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BTM Layout 1st Stage, Bangalore – 560 076

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### Summary

A Full Stack Developer with 3 months of experience in creating and managing web applications. Skilled in React.js for front-end and Python for back-end development. Experienced in database handling, RESTful APIs, and building secure, high-performing web solutions.

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### Education

#### Master of Computer Applications (MCA)

Bharathidasan University, Tiruchirapalli.

[Sep 2022 – May 2024] | 86%

#### Bachelor of Science in Computer Science

BRPT Dr. MGR Govt. Arts & Science College, Palacode.

[Jul 2019 – May 2022] | 83%

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### Professional Experience

#### Trainee Software Developer

Grid R&D [Oct 2024-Present]

- I contributed to the **Job Portal** web application using Python and Django with the following tasks:
    - I added Email Notifications for new users to register and apply for new jobs, profile-matched job notifications, and Employer and jobseeker messages.
    - Fixed some bugs for Skills and Hiring Industry fields some fields are added.
    - Employer sees the required details of the applied candidate in the dashboard.
    - Improve the job matching algorithm by the Doc2Vec model to analyze and match keywords from resumes and job descriptions.
    - Add an admin module and a dashboard to display employers' and candidates' details.
    - Developed and optimized APIs to integrate front-end applications with back-end services.
    - implemented MySQL database schemas, ensuring high performance and scalability.
  - Implemented secure JWT-based authentication and **role-based access control (RBAC)**.
    - Built RESTful APIs using Django for data processing and integration.
    - Enhanced database queries, reducing latency in response times.
    - Assisted in implementing authentication mechanisms and role-based access controls.
  - Contributed to the **Smart QR-Code Attendance System** project, ensuring location-based validation.
  - Collaborated with the team to debug and improve the performance of backend APIs.
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### Technical Skills

<b>Backend</b>	: Python (Django & Flask), Java, Node.js, RESTful API design
<b>Frontend</b>	: HTML, CSS, React, JavaScript
<b>Database</b>	: MySQL, MongoDB
<b>DevOps</b>	: CI/CD, AWS, Git, GitHub, Docker

## Projects

### 1. Detection of Adversarial Attacks using Deep Learning

**Technologies:** Python, Django, AI & ML models

- Develop a system to detect adversarial attacks on machine learning models using deep learning techniques.
- Adversarial attacks involve subtle modifications to input data (e.g., images, text) designed to mislead machine learning models into making incorrect predictions.
- Enhances the robustness and reliability of AI systems in critical applications like security, healthcare, and autonomous driving.
- Dataset: Use publicly available datasets like MNIST, CIFAR-10, or ImageNet to simulate adversarial attacks.

### 2. Medical Diagnosis System

**Technologies:** Python, Flask, AI & ML models, React

- Develop a medical diagnosis system that predicts the likelihood of seven specific diseases based on patient symptoms, medical history, and diagnostic tests.
- Early detection of diseases can improve treatment outcomes and reduce healthcare costs.
- Use publicly available datasets like UCI Machine Learning Repository or Kaggle datasets.
- Use machine learning algorithms like Logistic Regression, Random Forest, SVM, or Neural Networks for prediction.

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## Achievements

- **Python Programming** – Hamilton Learning Academy Bangalore.
- **Full-Stack Developer** – Apptecknow careers Bangalore.
- **Android Application Development** – Don Bosco Dharmapuri.
- **Big Data Computing** – Swayam (NPTEL) Online Course.
- **Machine Learning** – Pantech Solutions (online) Bangalore.

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## Activities and Seminars

- Attended TANSCHÉ-sponsored National Seminar on *Artificial Intelligence and ChatGPT*, organized by Bharathidasan University, 2023.

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## Languages

- English, Tamil