

Arunkumar J

Professional Portfolio

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EDUCATION

AMRITA SCHOOL OF COMPUTING

B.Tech in Computer Science
Oct 2021 - Present | Coimbatore, IN
CGPA : 8.41 / 10 (As of 6th Semester)

NDHCS (CBSE)

Senior Secondary
Jun 2019 - May 2021 | Salem, IN
Percentage : 92.60 %

LINKS

LeetCode : [22arun11](#)
Github : [22arun11](#)
LinkedIn : [22arun11](#)
Hackerrank : [22arun11](#)
Portfolio : [22arun11](#)

COURSEWORK

- Data Structures & Algorithms
- Operating Systems
- Computer Networks
- Internet of Things
- Database Management Systems
- Machine Learning
- Mobile Application Development

SKILLS

PROGRAMMING

Strong : Python, C++, Haskell
Familiar : JavaScript, Java, PHP, Scala

SOFTWARE FRAMEWORKS

Strong : Django, LLM, Streamlit
Familiar : Next.js, React, Node.js, Selenium, Bootstrap

DATABASES

Strong : MySQL, MongoDB
Familiar : Firebase, Oracle

CLOUD SERVICES

Strong : AWS
Familiar : Azure, Google Cloud

TOOLS

- Git • IntelliJ • Vercel
- Linux • VsCode • Ngrok
- Jupyter Notebook • JIRA

INTERESTS

- Cloud Computing
- Large Language Models
- Blockchain Technology

EXPERIENCE

DIGINIQUE LABS (IIT Roorkee) | [Certificate](#)

Aug 2023 - Oct 2023 | Remote Training Internship

- Studied Blockchain fundamentals in a collaborative Environment.
- Designed and implemented 10 complex Solidity Smart contracts.
- Leveraged Web3.js to enhance project functionality and facilitated evaluation of top 5 DeFi protocols as a collaborative team.

PROJECTS

MIND MATE (STUDENT-AID APP) | [GitHub](#)

Sep 2024 - Present | Kotlin, Gemini API, Android App, CV, Emotion analysis

- Customized Deep Learning models for sentiment and emotion analysis, achieving over 90% accuracy, to enhance students mental health support.
- Aimed to enhance insights for 1,000+ students by integrating Gemini API.

AMRITA - XDATA (SQL VALIDATOR) | [GitHub](#)

Jun 2024 - Present | React, Node.js, Firebase, MySQL, Javascript

- Automated SQL query validation, grading, and feedback for academics.
- Revamped WebAssembly for improved client-side SQL performance.
- Integrated APIs & optimizing partial marking for 30% initial efficiency.

AMRITA - DIGITAL EVAPORIMETER | [GitHub](#)

Feb 2024 - Present | ESP32, Django, SageMaker, API, DynamoDB

- Streamlined evaporation analysis by integrating OpenWeather API for weather data within the SageMaker pipeline, achieving 95% accuracy.
- Enhanced precision by 20%, optimizing university water management.

SIH - PGRKAM ENHANCEMENT | [GitHub](#)

Oct 2023 - Present | Django, Gemini API, Streamlit, MongoDB, Chainlit

- Built an LLM-powered multilingual audio chatbot for customer support.
- Integrated Gemini API for resume analysis, Boosts job prospects by 30%.
- Leveraged vector & RAG search to improve job recommendations by 20%.

RESEARCH

UNSUPERVISED PERSON RE-IDENTIFICATION (RE-ID)

Sep 2024 - Present | Amrita University Coimbatore, IN

- Led an initiative to achieve a 20% improvement in GCN's performance by analyzing and optimizing the architecture's functional parameters.
- Expedited model training, achieving a 20% accuracy improvement.

SECURING NETWORKS WITH APIDS (InPress)

Jan 2024 - Sep 2024 | Amrita University Coimbatore, IN

- Investigated protocol identification and intrusion detection, enhancing cybersecurity measures and contributing to the field's advancements.
- Compiled APIDS research, citing 60+ cybersecurity trend sources.

AWARDS

- Secured 1st place in Anokha CodeBot Tournament, Apr 2023. [Certificate](#)
- Secured 1st place in Ideathon at Amity University, Mar 2022. [Certificate](#)

CERTIFICATIONS

- Computer Networking Essentials (Cisco). [Certificate](#)
- AWS Machine Learning Foundations (Udacity). [Certificate](#)