

Arunkumar J

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EDUCATION






AMRITA VISHWA VIDYAPEETHAM

B.Tech in Computer Science
Oct 2021 - Present | Coimbatore, IN
CGPA : 8.47 / 10

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
- Deep Learning & Computer Vision
- Mobile Application Development

SKILLS

PROGRAMMING

Strong : Python, C++
Familiar : Java, PHP

SOFTWARE FRAMEWORKS

Strong : Django, Fastapi, LLM
Familiar : Next.js, React, Node.js,

DATABASES

Strong : MySQL, MongoDB, PSQL
Familiar : Oracle

CLOUD SERVICES

Strong : AWS
Familiar : Google Cloud

TOOLS

- Git • IntelliJ • Postman
- Linux • VsCode • Vi
- Docker • JIRA • Vercel

INTERESTS

- Cloud Computing
- Large Language Models
- Computer Networks
- Pencil Sketch (Hobby)

EXPERIENCE

CYSAVVI SOLUTIONS - CISOGENIE (Backend Developer Intern)

Dec 2024 - Present | Python, FastAPI, PostgreSQL, Postman, Docker, AWS

- Engineered high-performance RESTful APIs using FastAPI, Postman, and OpenAPI, achieving 95%+ test coverage with robust unit testing.
- Optimized CI/CD pipelines using GitHub Actions, reducing deployment time by 40% through automated testing and streamlined deployments.
- Developed Django-based utility software for mainframe support, integrating OAuth ROPG flow with JWT for secure authentication.
- Optimized DevOps by automating build, test, and deployment pipelines, enhancing scalability, reliability, and system performance.

PROJECTS

MIND MATE (STUDENT-AID APP) | GitHub

Sep 2024 - Dec 2024 | Kotlin, IntelliJ, 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 - Dec 2024 | 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.

SIH - PGRKAM ENHANCEMENT | GitHub

Oct 2023 - Aug 2024 | 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 (InPress)

Sep 2024 - Feb 2024 | 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.
- Accelerated model training, achieving a 20% accuracy improvement.

SECURING NETWORKS WITH APIDS (Published)




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 