

Archana K R

M.Tech CSE

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in LinkedIn Profile

EDUCATION

- **National Institute of Technology, Goa** 2023
M.Tech in Computer Science and Engineering CGPA: 8.33/10
- **Nehru Institute of Engineering and Technology, Tamil Nadu** 2017
B.E. in Computer Science and Engineering CGPA: 7.56/10
- **Govt.Girls Higher Secondary School, Kerala** 2013
Kerala State Board, Computer Science Percentage: 76%
- **P.K.High School, Kerala** 2011
Kerala State Board Percentage: 83%

EXPERIENCE

- **Technical Graduate Intern** July 2022-June 2023
Intel Corporation, Bellandhur, Bangalore
 - Queue management and Load balancing on Intel DLB PCIe architecture.
 - Executing DLB dir_traffic and ldb_traffic tests and reporting defects in the DLB kernel driver.
 - Exploring kernel bypassing using Data Plane Development Kit.
 - Conducting dpdk test-eventdev application and L2/L3 forwarding application using Ixia traffic generator.
 - Using DLB virtualization techniques: SRIOV and SIOV, creating virtual functions.
 - Working on Live migration of DLB and raised Jira tickets to track the identified defects for each DLB driver releases.
- **Computer Hardware and Networking Trainer** June 2018-March 2020
Caret technologies, Alathur, Palakkad
 - Conducted interactive training sessions to teach about computer hardware components and networking concepts.
 - Hands-on lab exercises to facilitate assembling a computer to create a functional computer system and providing guidance for different OS installations.
 - Handled classes on the Concept of layering: OSI and TCP/IP protocol stacks.
- **Teacher** June 2017- March 2018
Victory College, Alathur, Palakkad
 - Educator for high school students.
 - Main Subjects: Physics, Chemistry, Maths.

PROJECTS

- **E-Commerce Product Classification using ResNet50, LSTM and OCR** 2022-2023
Built a DNN model to distinguish Frieberg grocery dataset.
 - Utilizes ResNet50 for image feature extraction and LSTM for text feature extraction.
 - Interconnects image and text features for classification.
 - Representing a fusion of Computer vision (ResNet50) and Natural language processing (LSTM) techniques.
- **Static Transport Management System for Educational Organisation** 2016-2017
Developed a mobile application for checking the students' bus fee payment status.
 - Utilizes Students' ID cards barcode scanning.
 - Designed a website in the back-end to incorporate with the application.
 - Provides a centralized system for tracking payment status and Enhances administrative efficiency.

TECHNICAL SKILLS AND INTERESTS

Languages: C, C++, Python

Web development: HTML5, CSS3

Developer Tools: DPDK, Spyder, Ixia packet generator

Cloud/Databases: Sql Server, Mysql

Soft Skills: Good verbal and written communication, Teamwork, Problem-solving, Adaptability, Attention to detail, Time management, Empathy, Self motivation

Areas of Interest: Coding, DSA, OS, Machine Learning

POSITIONS OF RESPONSIBILITY

- Class Representative**, M.Tech CSE, NIT Goa *2021-2023*
- Placement Coordinator**, M.Tech CSE, NIT Goa *2022-2023*

ACHIEVEMENTS

- Has completed all the lessons and projects of Logic Building in Python by CodeChef. *2023*
- Recipient of Central Sector Scholarship by MHRD, Govt. of India. *2021-2022*
- First prize in quiz competition conducted by Nehru Institute of Engineering and Technology. *2017*