

ABDUL MUID

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EXPERIENCE

Research Paper – Computer Organization and Architecture

Aug 2024 – July 2025

Research title “Fair Partitioning of Read-Write Queue in NVM-LLC”

Remote, IIT Hyderabad

- Implemented Read/Write counters per core in ChampSim to monitor fairness in NVM-based LLC.
- Extended design to per-epoch counters for capturing dynamic workload behavior in the simulator.
- Developed per-core per-epoch bypassing in C++, improving IPC from 0.44 to 0.48.
- Work 80% complete in simulator, results under review on larger workloads for publication.

Computer Architecture Intern – IIT Hyderabad & IIT Madras

May 2024 – July 2025

Research Intern • Cache, NVM-LLC, ChampSim, GMMU Bypassing, MGPUSIM

IIT Hyderabad & IIT Madras

- Studied cache replacement policies LRU, MRU using ChampSim.
- Analyzed IPC of replacement policies on different workloads.
- Explored MGPUSIM to study request flow from TLB → GMMU in GPU architectures.
- Performed memory energy optimization using CACTI.
- Implemented Bloom Filter from scratch, in Go language.
- Integrated Cuckoo Filter into MGPUSIM, bypassing GMMU walkthrough.

Intern – TIH IIT Bhilai (NIT Mizoram)

Oct 2024 – April 2025

Full-Stack Developer • Next.js, React.js, Node.js, MongoDB, Redux Toolkit

NIT Mizoram

- Built secure JWT authentication with dynamic workflows and Redux state management.
- Developed frontend–backend systems with real-time notifications and responsive Tailwind UI.
- Used MongoDB Atlas for scalable and efficient data handling.
- Handled deployment, modularization, and performance tuning for maintainability.

PROJECTS

JobSearch Portal

Sept 2024 – Jan 2025

React.js, Node.js, Express.js, Mongo DB • Live Link

- Built a full-stack Job Search Portal using React (Vite), Node.js, Express.js, and MongoDB.
- Implemented student and recruiter roles with login, profile, resume upload, and job application features.
- Enabled recruiters to create companies, post jobs, and manage applicants with search/filter options.
- Deployed the project on Render with scalable backend and good UI.

TalentFlow – HR Helper in Recruitment

Jan 2025 – Apr 2025

React.js (Vite), TypeScript, Redux Toolkit, Tailwind CSS, IndexedDB, MSW • Live Link

- Developed a full-fledge applicant tracking system for managing jobs, candidates, and assessments.
- Built drag-and-drop job pipeline and Kanban-style candidate tracking.
- Created a dynamic assessment builder with real-time preview and validation.
- Designed responsive dashboards with key hiring metrics and activity insights.
- Added theme customization and accessibility support for all users.

SKILLS

C++ • Java • Python • Go • C • MongoDB • React.js • Next.js • Express.js • Node.js • MySQL • SQL Injections •
Wireshark • DoS/DDoS • Card Spoofing • COA • AI/ML • DSA • OS • DBMS • CN • Computer Graphics

EDUCATION

National Institute of Technology, Mizoram

Nov 2022 – July 2026

B.Tech in Computer Science and Engineering - CGPA: 8.77/10

Aizawl, Mizoram

Central Board of Secondary Education

April 2019 – May 2021

Class X - 95.6%, Class XII - 78.6%

Gorakhpur, Uttar Pradesh

ACHIEVEMENTS

- **SDE1** Offer letter from Wakefit
- **GET** Offer letter from Larsen & Toubro (L&T).
- Research Paper on “Fair Partitioning of Read-Write Queue in NVM-LLC” improved IPC from 0.44 to 0.48.
- Solved 500+ quality DSA problems across platforms including LeetCode, HackerRank, AtCoder, and GeeksforGeeks.
- Selected for IIT Madras in Student Exchange Program.