

# Ruban S



Website



GitHub



LinkedIn



E-Mail



+91 89712 62405

## INTERNSHIP/WORK EXPERIENCE

### MIPS EMBEDDED TECHNOLOGIES PVT. LTD. Associate Engineer

Jan '23 – Jun '23 (Internship)

Jul '23 – (Full-Time)

- Currently working in the **CPU Performance Modelling** division.
- Automating the CPU benchmarking against industry-standard CPU benchmarks
- Diagnosing performance bottlenecks of the CPU using DVE
- Performing RTL vs Simulation correlation
- Developed performance analyzing tools using Python
- Developing a CPU performance simulator using C++

### BHARAT ELECTRONICS LTD. May '21 – July '21 (Internship)

- Practical implementation of TWAMP (RFC 5357) using **Java**.
- Successfully measured round-trip time and jitter between two devices.

### TEACHING ASSISTANT IN CS F342 (COMPUTER ARCHITECTURE)

Dept. of Computer Science and Information Systems, BITS Pilani Hyderabad Campus

Sep '22 – Dec '22

- Provide support to students during lab sessions.
- Set problems and solutions for lab exercises.

## PROJECTS

### MARR'S LEVELS IN A MICROPROCESSOR MODEL OF THE BRAIN | PYTHON

- An attempt to reverse-engineer the 6502 microprocessor by comparing its functionality to that of the human brain.
- Studied the 6502 at the transistor level of implementation.
- Github Repository

### GHOTOVERFLOW | REACTJS

- A dedicated Q&A forum for students of BITS Pilani.
- Students can post and see questions and answers and can create threads in the comment section.
- Worked on the frontend of the website using **React.js** and **Chakra UI**.
- Github Repository

## CERTIFICATIONS

### ORACLE CLOUD INFRASTRUCTURE FOUNDATIONS 2020 CERTIFIED

ASSOCIATE | ORACLE

- The OCI Foundations certification is intended for individuals looking to demonstrate knowledge of public cloud services provided by OCI.
- Studied cloud technology, OCI services such as Compute, Storage, Network, OCI pricing and QoS.

## COURSES

Computer Architecture • Operating Systems • Digital Design • Microprocessors • Data Structures and Algorithms • Computer Networks • Software Engineering • Cloud Computing • Internet of Things

## SKILLS

### PROGRAMMING

- **C** (Experienced)
- **Python** (Experienced)
- **Shell Scripting** (Experienced)
- **Assembly (RISC-V)** (Experienced)
- **C++** (Skilled)
- **Java** (Skilled)
- **Assembly (x86)** (Intermediate)
- **Verilog** (Novice)

### TOOLS/PLATFORMS

- **Windows** (Experienced)
- **Linux** (Experienced)
- **Git** (Intermediate)
- **Perforce** (Intermediate)
- **Discovery Visual Environment (DVE)** (Intermediate)
- **Jira** (Intermediate)
- **Jenkins** (Novice)

## EDUCATION

### BITS PILANI, HYDERABAD CAMPUS

B.E. COMPUTER SCIENCE

2019 - 2023

CGPA: 9.01 / 10

### BISHOP COTTON BOYS' SCHOOL

SCIENCE STREAM (CLASS XII)

2019

Score: 93.8%

### BISHOP COTTON BOYS' SCHOOL

SCIENCE STREAM (CLASS X)

2017

Score: 91.7%

## LANGUAGES

- English (Proficient)
- Hindi (Intermediate)
- Tamil (Intermediate)