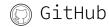
# Ruban S









# INTERNSHIP/WORK EXPERIENCE

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

Jan '23 - Jun '23 (Internship) (Full-Time)

- Currently working in the CPU Performance Modelling division.
- Automating the CPU benchmarking against industry-standard CPU
- 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 it's 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.is 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)