

MEETESH KALPESH MEHTA

Computer Science Engineer, Developer and Research Scholar

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ABOUT

I'm a research scholar @IIT Mandi working in the area of compilers. My latest work focuses on a JIT compiler for the R Programming Language where I tackle the problems of warmup times and deoptimization overheads. I absolutely love everything about computers and love to dive deeper into what makes them tick. I find myself comfortable in high level abstractions as well as low level things like code generation, assembly, C++. Apart from computers I also tinker a lot with Raspberry Pi's, Arduino's, etc in my free time.

CERTIFICATIONS

Interpreter fundamentals

- Building and Interpreter from scratch from Udemy.

Java

- The Complete Java Developer course from Udemy.

Data Structures and Algorithms

- Data Structures and Algorithms course from Udemy.

HTML and CSS

- The complete HTML and CSS course from Udemy.

Photoshop

- Photoshop Beginners Mastery course from Udemy.

TECHNICAL SKILLS

Core: C++, C, Java

Scripting: JS, python, bash

Databases: SQL, MongoDB

Frameworks: React, React Native, Express

Proficiency: Latex, MS Office, Linux, macOS, Windows

COURSE WORK AT IIT MANDI

Data Structure and Algorithm - II: A

Computer Architecture: O

Compiler Design: O

Program Analysis: A

TEACHING ASSISTANT

CS502: Compiler Design (Fall 2022)

CS302: Paradigms of Programming (Spring 2022)

CS515: Advanced Computer Science Practicum (Fall 2021)

EDUCATION

M.S. By Research Computer Science

IIT Mandi

📅 2020 (Ongoing) 📍 Mandi, Himachal Pradesh

- CGPA: 9.5/10

Bachelor of Technology Computer Science and Engineering MRIIRS

📅 2016 📍 Delhi-NCR, Faridabad

- CGPA: 8.99/10

Telangana State Board (CLASS XII) Sri Gayatri Junior College

📅 2016 📍 Hyderabad, Telangana

- Percentage: 90.5%

CBSE (CLASS X)

Bharatiya Vidya Bhavans Public School

📅 2014 📍 Hyderabad, Telangana

- CGPA: 10/10

PROJECTS

Runtime vizualizer for contextual dispatch

- Developed a runtime visualizer to study the impact of contextual dispatch on R (GitHub).

XOPE Programming language

- Developed as a part of B.Tech final year project, this is a compiler that implements a beginner friendly frontend and generates X86_64 assembly. Made open source GitHub (GitHub).

Campus Story

- Developed an app to simplify information flow in educational institutions to students. The app was developed using React Native for iOS, Android and web platforms. Made open source GitHub (GitHub).

Compl-Validator

- Developed as an aid to speedup assignment evaluation at IIT Mandi. This is a set of tools and libraries for backend/frontend to allow easier integration and evaluation of moodle submissions (GitHub).