Devanshu Singla

Sophomore • Indian Institute of Technology, Kanpur

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SELECTED PROJECTS

CAMPUS DISCUSS • SNT CLUB, IITK

Summer Project | Summers 2020

- Implemented a webapp using JS libraries like ReactJS, Redux, Material UI, etc.
- Implemented a React Native app using Expo and used **Typescript** for better type checking.

CHROMEBOT • Self Project

Summers 2020

devanshusingla/chromebot

- Implemented a chrome extension in JavaScript with an interface of bot linked with a local NodeJS server made using **ExpressJS** to perform tasks on computer and browser.
- Tasks implemented include setting alarm for competitive programming (cp) contest, scraping codeforces contest and creating files with code template in local system, etc.

PRIVATE COMPUTATION USING CRYPTOGRAPHIC PRIMITIVES • SNT CLUB, IITK

Summer Project | May. 2020 - Jul. 2020

Crypto-IITK/Obliv-rust

- Implemented Distributed Point Function (DPF) library using the principles of Function Secret Sharing (FSS) in Rust.
- Learned about various Cryptographic Primitives used for Private Computation like Function Secret Sharing, Fully Homomorphic Encryption, Yao's Garbled Circuits and Shamir's Secret Sharing.
- Learned about Multithreading, Memory Optimizations, Ownership Laws in Rust language.
- Used libraries like gtest, grpc, google/benchmark

RELEVANT COURSES

- Data Structures and Algorithms
- Fundamentals of Computing
- Introduction to Electronics
- Real Analysis and Calculus
- Linear Algebra and ODE
- Modern Cryptology[#]
 - Quantum Computing[#]
 - Software Development#

Computer Organization[#]

• Game Theory and Mechanism Design

EDUCATION

B. TECH, CSE

IIT Kanpur | Exp. 2023

CPI: 9.27/10.0

MODERN VIDYA NIKETAN SEC-17, FARIDABAD

Grade XII, CBSE: 96.4%

ST. THOMAS SR. SEC. SCHOOL, FARIDABAD Grade X, CBSE: 10 CGPA

ACHIEVEMENTS

- Academic Excellence Award For academic year 2019-20
- AIR 191 | JEE Adv. 2019
- AIR 182 | JEE Mains 2019
- AIR 131 | KVPY 2018 (SX)
- Qualified for INMO 2019

TECHNICAL SKILLS

C++ · C · Rust · Python · Bash HTML · CSS · React-Native Javascript · ReactJS · NodeJS NumPy • Git • LATEX• Radare2

OTHER PROJECTS

- Creating Game Theoretic-Models to analyze Biodiversity | CS711 Course Project, IITK | Nov. 2020 -Dec. 2020
- Infosec IITK | ACA, IITK | Summer Project | May. 2020 - Jul. 2020

RESPONSIBILITIES

STUDENT GUIDE

Counselling Service IITK | Nov. 2020 -Present

• Helped six freshman to get acquainted with campus life and academics at IIT Kanpur.

≡ ongoing courses