

ROHIT ASHIWAL

System Software hobbyist with interests in the field Distributed Computing

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in rohit-ashawal

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EDUCATION

Computer Science and Engineering (CSE)

Indian Institute of Technology (IIT), Roorkee

Cumulative GPA: 7.000/10

📅 July 2017 – Present

RESEARCH EXPERIENCE

CoDA Lab, IIT Roorkee

📅 May 2018 – Jul 2018

Learning project under **Prof. Sudip Roy, Dept. of CSE, IIT Roorkee.**

- Discussed various security issues, encryption and prevention schemes in different microfluidic biochip design, viz, DMF, CMF, PMD, and MEDA
- Implemented a simple routing scheme for mixing of bio-material on chip

WORK EXPERIENCE

Student Software Developer

Google Summer of Code 2019 | Git

📅 May 2019 – Aug 2019

Git is a distributed version control system with focus on speed, data integrity, and support for distributed, non-linear workflows.

- Worked with Git to improve consistency of sequencer commands
- Introduced requested features to git-for-windows

PROJECTS

LBakeDB: A fully functional Relational DB written in C that follows SQLite like commands.

A course project under Database Management systems

Linux Scheduler: A background scheduler policy written in C for the Linux kernel 4.20.5 (current stable at the time of development).

A course project under Operating Systems

Assembler: SIC/XE assembler written in C supporting extended instruction set.

A course project under Systems Software

Go-play: A web app that handles request over local-network and plays music with backend written in Go and frontend in React.

TECHNICAL SKILLS

Programming: Java, Python, Kotlin, JavaScript

System Programming: C/C++, Go

Utilities: Git, BigQuery, GDB, make, Doxygen

Others: Shell Scripting, Django, Qiskit, Jupyter, \LaTeX

EXTRACURRICULAR ACTIVITIES

Mentor, SMP IIT Roorkee

📅 July 2019 – Present

Mentoring freshmen for smooth transition to campus life, motivating their academic & other endeavors.

Developer at Mobile Development Group

📅 Jan 2018 – Jul 2019

MDG is a small group of students that foster android development in the campus premises.

Developer at Cognizance

📅 Jan 2018 – Mar 2018

Cognizance is the official technical festival of IIT Roorkee. Developed database schemas & RESTful APIs.

Hacker at InfoSec

📅 Aug 2017 – Jan 2018

InfoSec is a group of students that spread awareness about information and cyber security.

ACCOMPLISHMENTS

- **XCTF, 2018** - Ranked 105 among 5000 teams from all over the world
- **ACM ICPC, 2017** - Honorable Mention in ACM ICPC Asia Region Amritapuri Online Contest
- **JEE Advanced, 2017** - Top 3% among a pool of 220,000
- **JEE Mains, 2017** - Top 0.8% in JEE Mains 2017 among a pool of 1.5 million

CERTIFICATES

- **Exploring and Preparing your Data with BigQuery**
Coursera
Issued on Dec 2019 see credential
- **Elements of AI**
University of Helsinki
Issued on Jun 2018 see credential