Aniket Mathur

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Roorkee, India

EDUCATION

IIT ROORKEE
B.Tech in ECE
2017-present | CGPA: 8.8

PROFILE

Github:// **Aniket21mathur**
LinkedIn:// **aniket-mathur-1a1a31158**
Portfolio:// **aniketmathur.me**

SKILLS

LANGUAGES
Python • C/C++ • JAVA • Javascript
Chapel • PHP • Bash • Verilog

PACKAGES
Django • React.js • Node.js • GDB
Postman • Wireshark • Git
• Sublime Text • Atom

ACCOMPLISHMENT

CIPHER COMBAT 1.0 AND 2.0
2020
- Among top 10 and top 30 in the Cybersecurity CTFs organised by HackerEarth.

UST GLOBAL HACKATHON
December 2019
- Among top 20 teams out of 7000 selected for the onsite hackathon.
- Developed an intelligent social connecting platform based on interests and work.

CSAW CTF
September 2019
- Qualified for India finals of CSAW CTF with India rank 4.

BRAINWAVES CTF
March 2019
- Ranked 4th at the onsite round of Brainwaves CTF conducted by Societe Generale.

MENTOR| SMP
August 2019 - July 2020
- Mentored freshers as a part of Student Mentorship Program.
- Conducted daily meetings covering acads, extracurricular and campus life.

EXPERIENCE

GOOGLE SUMMER OF CODE Chapel-lang| Software developer
June 2020 – August 2020 | Remote
- Engineered C++ plugin and user facing Chapel API for Google Protocol Buffers.
- Implemented protobuf wire encoding algorithms including advanced types like Oneofs, Enums and Any for serializing data. Used the protoc plugin APIs to argument the compiler to generate Chapel code.
- Wrote unit-tests and setup architecture for end to end testing with Python.

J.P.MORGAN CHASE & CO. | Analyst
June 2020 – July 2020 | Remote
- Developed an MVP for conversion between Indian Sign Language and English.
- Used Google Mediapipe CNN models for palm gesture recognition with 4 layer RNN model for classificatoin using a self made dataset.
- Used Spacy to tokenize words and modify sentences into ISL grammar space.

SUGAR LABS | Member and GCI Mentor
February 2019 – July 2020 | Remote
- Maintained smooth development of Sugar activities and Musicblocks and released the activities to activities.sugarlabs.org.
- Mentored student contributors as a part of Google Code-in programme.

FREDIT FINANCIAL TECH PVT LTD. | Software developer
December 2019 – January 2020 | Remote
- Spearheaded the development of flask REST APIs over a MongoDB database, integrating OTP services and payment gateways on an amazon ec2 instance.
- Designed and developed the loan disposal and acquisition algorithm.

GOOGLE SUMMER OF CODE Sugar Labs| Software developer
May 2019 – August 2019 | Remote
- Improved the compatibility of Sugar environment with Python 3, maintaining the support for Python 2.
- Recouped telepathy-python with TelepathyGLib and dbus API calls.
- Made progress in porting Sugar-toolkit, Sugar-datastore and Sugar. Tested gwebsockets and collaboration using VM cloning.

MOODCAFE | Software developer
December 2018 – January 2019 | Ahmedabad, India
- Improvised and optimised the user-listener matching algorithm.
- Engineered many new features like Group Chat and user-listener switch.
- Contributed to the discussions of the core team regarding new features to make the app more sophisticated and adaptable.

PROJECTS

OFFICIAL ALUMNI PORTAL OF IIT ROORKEE
Oct 2018 – present | Roorkee, India
- Contributing to the development of a sophisticated alumni portal for improvising the alma connect of the institute.
- Engineered the development of Django REST APIs and React responsive UI with authorization using JWT tokens.
- Coordinating with the team of Dean of Resources and Alumni Affairs for maintaining the current portal and leading the deployment and review process of the new portal.

SNACKDOWN
2019
- Cleared the online qualifier round.

COGNIZANCE
2018
- Organised Teach event of the fest. Making calls for promotion and managing teams.

RAVINDRA BHAWAN COUNCIL
October 2019 - July 2020
- Cortibuted to Intra bhawan management.
- Hosted the annual Ravindra bhawan day.

NATIONAL SERVICE SCHEME
July 2017 - June 2018
- As a part of the Editorial cell covered and reported all the social service based events conducted by NSS.

REFERENCES

Walter Bender
founding member and former Executive director: MIT Media Lab, co-founder: OLPC, founder: Sugar Labs
MIT, OLPC, Sugar Labs
walter.bender@gmail.com

RAIONZO| TECH LEAD
June 2019 – August 2019 | Roorkee, India
- Lead the development of web portal of the first Student-Alumni fest of IITR.
- Tested code, reviewed pull requests, submitted issues and did code refactoring.
- Spearheaded the development of an automated email delivery Django server.

THROW AND FETCH BOT
January 2018 – March 2018 | Roorkee, India
- Collaborated to the development of an object detection and fetch bot.
- Implemented a regressive algorithm using OpenCV for color detection and thresholding. Tested the algorithm on Raspberry pi as well as Arduino.
- Contributed to the mechanical construction of the bot.

LEADERSHIP

JOINT SECRETARY | Institue Alumni Relations Cell
August 2018 – present | Roorkee, India

- Leading the technical team of the cell working on maintaining the existing, and developing new alumni portal of IIT Roorkee by coordinating with DORA office.
- Conducting technical lectures and open ended discussions for the team.

MEMBER | SDS InfoSec
May 2018 – present | Roorkee, India
- Designed challenges for https://backdoor.sdslabs.co. and participated in various CTFs as a member of InfoSecIITR.
- Conducted meetings, workshops and lectures on various information security related topics including Web Security, Binary Exploitation, Reversing etc.