Anirudh S Kumar

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EDUCATION

Indraprastha Institute of Information Technology, Delhi (IIITD)	June'25
B.Tech in Computer Science with Artificial Intelligence	*GPA: 8.55/10*
Sardar Patel Vidyalaya	June'21
CBSE Class 12	*Percentage: 97/100*

SKILLS/COURSEWORK

Languages: Python, C/C++, Java, SQL, HTML/CSS, JavaScript/TypeScript, LaTeX
Tools: Git/GitHub, GitHub Actions, Unix Shell, VS Code, IntelliJ IDEA, Google APIs, MySQL, Android Studio, Figma
Frameworks: Svelte, SvelteKit, TailwindCSS,Selenium, FastAPI
Libraries: Pandas, NumPy, Matplotlib, sklearn, LibGDX, Arcade, Pygame
Courses: Statistical Machine Learning, Machine Learning, Computer Networks, Data Structures and Algorithms, Operating Systems, Database Management Systems, Theory of Computation, Algorithm Design and Analysis, Networks and System Security, Object-oriented Programming

PROJECTS

Delayma | *Python, Scikit-Learn, Pandas, Numpy, Plotly*　　　　　　　　　　　　　　　　Sep '23 – Nov '23
- Designed ML models to predict flight delays based on weather and other conditions accurately
- Applied various machine learning algorithms for classification such as logistic regression, SVMs, Random Forest, etc.
- Able to achieve more than 98% accuracy in classification, and MSE of less than 1 minute
- Selected as one of the best ML Projects in the course

Access Control Lists in Linux | *Python, Scikit-Learn, Pandas, Numpy, Plotly*　　　　　Sep '23 – Nov '23
- Implemented custom version of Linux Access Control Lists using C++, bypassing the normal DAC of Linux
- Implemented programs that worked with the ACLs such as 'fput', 'fget', 'cd', 'mkdir', etc along with a sudo program
- Focussed on making it as secure as possible, preventing privilege escalation

DrugVeda | *TypeScript, HTML/CSS, Svelte, SvelteKit, Selenium, FastAPI, TailwindCSS, Firebase*　　Jan '23 – April '23
- Created a complete end-to-end online pharmaceutical store website, which allowed users to authenticate, view all the items available, add items to their cart, and complete the checkout
- Designed the frontend using Svelte, SvelteKit and TypeScript with Styling done using TailwindCSS
- Devised the backend as a FastAPI server hosted on a Linode Virtual Machine, with Firebase for Authentication
- Hosted a MySQL database on Linode, allowing for independent development of the frontend and backend

Leetcode Automations | *Selenium, Google APIs, Python, GitHub Actions*　　　　　　　　Oct '22 - Aug '23
- Performed web scraping using selenium, and updated google spreadsheet using APIs to track number of solves
- Deployment and Updation of the sheet was done through GitHub Actions, providing more than 99.99% uptime
- Had an active user base of more than 20 users

EXPERIENCE

Undergraduate Researcher | *Network and Security Lab, IIITD*　　　　　　　　　　　　May '23 – Present
- Advisor: Dr. Sambuddho Chakravarty
- Working in a team to utilize games as a medium for doing Real-Time Covert Communication (VoIP Calls)
- Devising methods for talking without the adversary being able to detect that they are communicating.
- Created various programs to mangle packets going out of games to introduce covert data

Freelancer | *CSE Department, IIITD*　　　　　　　　　　　　　　　　　　　　　　　Jun '22 - Present
- Worked as a part-time student in the CSE department and generated scripts to help in day to day functions of CSE faculty
- Devised a system using AppsScript, for converting meeting feedback into a PDF, and emailing it to all the attendees

POSTIONS OF RESPONSIBILITY

Coordinator | *d4rkc0de and OWASP IIITD Student Chapter*　　　　　　　　　　　　　Mar '23 – Present
- Cybersecurity Club of the College, Current AIR 5 on CTFtime for CTF(Capture the Flag)
- Head of the OWASP Foundation's Student chapter at IIITD
- Participated in various CTFs and conducted a yearly international CTF with more than 400 teams participating
- Conducted various events related to Cybersecurity such as Bugsmash (A Bug Finding and Fixing contest) and Steelmountain.exe(story-based physical CTF event)
- Represented OWASP IIITD at NITKKR to present a talk on Introduction to CTFs along with a CTF