

Examination

Dhruv Rambhia Computer Science & Engineering Indian Institute of Technology Bombay

University

200050115 B.Tech. Gender: Male

DOB: 25/03/2003

Year

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Graduation	IIT Bomb	oay	IIT Bombay	2024	
		ACCOLADES &	ACHIEVEMENTS		
All India Rank 43 in J	EE Advanced and	d 158 in JEE Mains 2020		s clearing the INChO selecte	ed for OCSC
State Topper in the HSC Science Board among 1.5M applicants			Among 3 students out of 308 awarded an AP grade in Sociology		
Qualified the Regional Maths Olympiad from Mumbai region			Third Runner-Up in the Mimamsa Quiz 2021 by IISER Pune		
Qualified the Region	ai iviatiis Oiyiiipi		AL EXPERIENCE	e Willianisa Quiz 2021 by II.	EN Pulle
	Worked as a Ou			Toom in the Cornerate Tree	curu Division
Goldman Sachs	 Worked as a Quantitative Analyst in the Cash and Collaterals Strats Team in the Corporate Treasury Division Designed a mathematical model to manage liquid assets for the firm during FX market stress scenarios 				
Summer Analyst	 Integrated the model into a pipeline as a Python module suggesting trades & reporting Liquidity Breaches 				
(May '23 - Jul '23)	 Documented and published a detailed Model Document to present the technical nuances of the model 				
FinIO Consulting	Received an in-semester internship offer to continue working on more projects for the firm by the supervisor				
FinIQ Consulting Structured Products	 Analyzed term sheets of exotic options and structured products to understand their contracts and risks Developed an interpolation algorithm for the interest rates as a component of the pricing model backend 				
Platform Analyst					
(Dec '22)	 Collaborated with a team to develop an application pricing FX Option Strips using the Black-Scholes model 				
TU Braunschweig	Received a Letter of Recommendation from Dr Thomas Kürner (Fellow, IEEE) for the outstanding results • Studied the Simulator for Mobile Networks (SiMoNe) to emulate realistic urban mobile network maps				
Research Intern					
(May '22 – Jul '22)	• Examined the LAN traffic produced by ECG Vests and used statistical modelling to fit it into SiMoNe				
ISB Mohali	Received a Letter of Recommendation from Prof. Dr Francis B. Kim for delivering impressive insights				
Online Internship	• Assessed the dynamics and evolution of the sharing economy while exploring parts of contract theory				
(May '22 - Jul '22)	Scrutinized U	ber's Liminal Movement &	methods to overcome	regulatory challenges in dif	ferent market
		POSITIONS OF	RESPONSIBILITY		
Head CSE D-AMP (Mar '23 - present)	Chosen as one of the two Department Academic Mentorship Program (D-AMP) Co-ordinators for CSE dept.				
	 Hand-picked and led a team of 35 mentors from 70+ applicants through an extensive interview process Organized and presented in versatile seminars, such as Sophomore 101 impacting 200+ junior students 				
	Student Mentor	 Selected as ISMP and D-AMP mentor to counsel junior students on facing academic and personal issues Chosen as one of 143 ISMP mentors to guide first-year students after a rigorous selection procedure Chosen as a DAMP mentor to help 6 juniors navigate the challenges of their sophomore year in CSE 			
SMP					
(Apr '22 - present)					
D2D Counts Notuced	• Ctudied the		S & COURSES	blackshain by simulating a	D2D Notwork
P2P Crypto Network (Aug '23 – Nov '23)	 Studied the effect of selfish & stubborn mining attacks on the blockchain by simulating a P2P Network Examined smart contracts and implemented a decentralized app in Solidity to transfer funds to peers 				
R&D Projects	SURP '21 • Developed a Python app to demonstrate the NMR concepts for educational applications				
	SURP '23 • Carried out literature review and ideation for applications of an optimization method				
Summer of Science	• Explored concepts of probability & stochastic processes such as Markov Chains, Gaussian Process etc				
(May '22 – Jul '22)	• Identified potential applications in Quantitative Finance and prepared a detailed report for the project				
	Mathematical	Calculus, Ordinary Differer	itial Equations, Mathen	natical Optimization, Numer	ical Analysis
Relevant Courses *(ongoing)	Computer	Databases, Software Syste	ms, Data Structures and	d Algorithms, Discrete Struc	tures, Logic,
	Science	Computer Networks, Reinf	orcement Learning*, Fo	ormal Methods in Machine	Learning*,
	Finance	· · · · · · · · · · · · · · · · · · ·		kets, Modelling and Valuing	g a Company*
			JLAR ACTIVITIES		
Teaching Assistant		,	•	sibilities such as managing	
				on papers and solving doubt	
			'21 – Mar '22) CS293 '22 – Dec '22) CS224M	DS and Algorithms Lab (Jo Computer Networks	
Hobbies and Interest Pursuits	C3413IVI IIILI'00		•	jali Bhagwat Shooting Acad	ongoing) emy (Dec '22)
	Sports			Crossy General Champion	
	-	·		•	•
				rtment Football Tourname	
	Misc.			n Struggle' held by the PRO	
		Achieved 3'" place in 'S'	trategy Wars' mock tra	ding competition by the UG	AC (Jan '23)

Institute