Sidhant Nagpal

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SKILLS

TECHNICAL

Algorithms • AI/ML • Open Source Deep Learning • Applied Mathematics

PROGRAMMING

C/C++ • Python • Java • SQL Bash • Go • LaTeX • HTML • CSS

TOOLS & FRAMEWORKS

PyTorch • Keras • scikit-learn • NumPy OpenCV • Jupyter • Matplotlib • Flask Git • AWS SQS • DialogFlow • Selenium

FDUCATION

UNIVERSITY OF DELHI

BE IN COMPUTER SCIENCE 2015-19 (expected) | Delhi, India Netaii Subhas Institute of Technology Percentage: 82.16% (Top 5%)

Grad. May 2015 | Delhi, India AISSCE (Class XII): 96% AISSE (Class X): CGPA 10.0/10.0

PROJECTS

- Deep Learning for CV and NLP CV - Image Denoising using CNN NLP - Opinion Mining using RNN (LSTM) • Game Playing Als
- Intelligent solvers for N-Puzzle, N-Queens, Sudoku, Tic-Tac-Toe using Search Heuristics • Intuit Mint Assist (Hackathon)
- Expense tracking automation using Google Assistant (AI) and NFC Trigger (IoT)
- Formal Language & Automata Finite, Push-Down Automata, Turing Machine
- Ranking Application

Python (Flask) Web App based on Elo rating

• Algorithmic Progress Visualizer Web scraper for Programming Judges

LINKS

Github:// SidhantNagpal LinkedIn://SidhantNagpal Web:// SidhantNagpal.com

EXTRA CURRICULARS

Bronze Medallist, Hockey Inter-Zonals Best Player & Team Captain, Inter-School

EXPERIENCE

GOOGLE SUMMER OF CODE | DEVELOPER FOR SYMPY

Feb 2018 - Aug 2018 | Remote

- Implemented discrete transforms, convolutions, recurrences modules using efficient algorithms and paradigms (Dynamic Programming, Divide and Conquer) for SymPy, a NumFOCUS sponsored Python library for Symbolic Mathematics
- Contributed to SymPy modules for matrices, differential equations, solvers. combinatorial functions, SymPy bot (based on GitHub API) and Sphinx docs

Mentors: Aaron Meurer, Lead developer, Staff scientist at University of South Carolina Kalevi Suominen, Professor Emeritus, Dept. of Mathematics, University of Helsinki

INTUIT | Software Engineering Intern

May 2018 - Jul 2018 | Bangalore, India

- Incorporated encryption logic and distributed message queue to decouple the monolith - IntuitMarket.com (QuickBooks E-commerce) for AWS migration
- Contributed to Intuit Data Protection Services (IDPS) SDK for Cryptography
- Hackathon runner-up for implementing IoT & Al-based solutions for Intuit Mint

INDIAN INSTITUTE OF TECHNOLOGY | UNDERGRAD RESEARCHER

Jun 2017 - Jul 2017 | Kanpur, India

Studied the Dynamic DFS problem in Graph Theory and presented an efficient BAL BHARATI PUBLIC SCHOOL algorithm based on Heavy-Light Decomposition from the arXiv research paper by Dept. of CSE, IIT Kanpur under the supervision of Dr. Raghunath Tewari

POSITIONS OF RESPONSIBILITY

SymPy: Project Collaborator (a position funded by NumFOCUS) and PR reviewer Google Code-in: Mentor for Sustainable Computing Research (SCoRe) Lab PyCon India (PSF): Delegate, organised and conducted a developer sprint for SymPy We Care & Give Back (Intuit): Volunteer, created tactile stories for blind children WARUDA (NGO): Volunteer, created awareness about computer literacy

PROGRAMMING EVENTS

2017 2017 2017 2017 2017	Rank 464/24K+ Rank 1668/25K+ Rank 105/1K+ Rank 60/800+ Rank 26/250+ Rank 41/100+ Top 200/300K+	Google Code Jam Round 3 (semi-final) Google Code Jam Round 2 (quarter-final) Google Kickstart Round G Google Kickstart Round B ACM-ICPC Asia Regionals, Amritapuri ACM-ICPC Asia Regionals, Gwalior Sphere Online Judge (SPOJ)
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ACHIEVEMENTS

Merit Scholarship Award	Academic courses, University
Ramanujan Award	Mathematics courses, University
99.81 percentile from 1.3L+	Joint Entance Examinantion (JEE) Main
Fellowship Award	Kishore Vaigyanik Protsahan Yojana (KVPY)
Top 1.33% of 3L+	National Talent Search Examination (NTSE)
Merit Scholarship Award	Science courses, High School
Scholar Platinum Medal	Academic courses, High School
IOM Silver Medallist	International Olympiad of Mathematics
IMMO Silver Medallist	International Master Mathematics Olympiad
	Ramanujan Award 99.81 percentile from 1.3L+ Fellowship Award Top 1.33% of 3L+ Merit Scholarship Award Scholar Platinum Medal IOM Silver Medallist