Sidhant Nagpal

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SKILLS

TECHNICAL

Algorithms • Data Structures • APIs
Artificial Intelligence • Open Source
Applied Mathematics • Cryptography

PROGRAMMING

Python • C++ • C • Shell • LaTeX
SQL • Java • Android • HTML • CSS
Git • Travis CI • AWS SQS • DialogFlow
Flask • Selenium • BeautifulSoup
Matlab • Octave • SIMD • Assembly

EDUCATION

UNIVERSITY OF DELHI

BE in Computer Science
2015-19 (expected) | Delhi, India
Netaji Subhas Institute of Technology
Percentage: 82.16% (Top 5%)

BAL BHARATI PUBLIC SCHOOL

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

PROJECTS

- SymPy
Python library for Symbolic Mathematics
- Intuit Mint - Assist (Hackathon)
Expense tracking automation using Google
Assistant (AI) and NFC Trigger (IoT)
- Game Playing AIs
Intelligent systems for solving N-Puzzle,
N-Queens, Tic-Tac-Toe using AI Techniques
- Ranking Application
Python (Flask) Web App based on Elo rating
- Breakout (Android)
Android game based on DX-ball
- Algorithmic Progress Visualizer
Web scraper and visualizer for tracking
algorithmic progress on Online Judges

LINKS

Github:// **SidhantNagpal**
LinkedIn:// **SidhantNagpal**
Twitter:// **@_SidhantNagpal**

EXTRA CURRICULARS

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

EXPERIENCE

GOOGLE SUMMER OF CODE | Developer for SymPy

Apr 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 bot (based on GitHub API) and Sphinx documentation

INTUIT | Software Engineering Intern

May 2018 – Jul 2018 | Bangalore, India
- Implemented encryption logic and distributed message queue to decouple the **IntuitMarket.com** (QuickBooks E-commerce) monolith for **AWS** migration
- Contributed to Intuit Data Protection Services (IDPS) SDK for Cryptography
- Hackathon runner-up for implementing **IoT** & **AI-based** solutions for **Intuit Mint**

RESEARCH

INDIAN INSTITUTE OF TECHNOLOGY | Undergrad Researcher

Jun 2017 – Jul 2017 | Kanpur, India
Studied the Dynamic Depth First Search problem in Graph Theory and presented an efficient algorithm based on the research paper **arXiv:1502.02481v3** by **IIT Kanpur**

POSITIONS OF RESPONSIBILITY

Google Code-in: Mentor for Sustainable Computing Research (SCoRe)
PyCon India (PSF): Technical speaker for Symbolic Computation using SymPy
SymPy (NumFOCUS): Project collaborator responsible for reviewing Pull Requests
We Care & Give Back (Intuit): Volunteer for creating tactile stories in Braille
WARUDA (NGO): Volunteer for creating awareness about Computer Literacy

PROGRAMMING EVENTS

Year	Rank	Event
2018	Rank 464/24K+	Google Code Jam Round 3 (semi-final)
2017	Rank 1668/25K+	Google Code Jam Round 2 (quarter-final)
2017	Rank 105/1K+	Google Kickstart Round G
2017	Rank 60/800+	Google Kickstart Round B
2017	Rank 26/250+	ACM ICPC Asia Regionals, Amritapuri
2017	Rank 41/100+	ACM ICPC Asia Regionals, Gwalior
2016-18	Top 200/300K+	Sphere Online Judge (SPOJ)
2015-18	Solved 1000+ Problems	Online Judges for Programming

ACHIEVEMENTS

Year	Achievement	Field
2016-17	Merit Scholarship Award	Academic courses, University
2016	Ramanujan Award	Mathematics courses, University
2016	Section Rank 1/70	Computer Science courses, University
2015	99.81 percentile from 1.3L+	Joint Entance Examinantion (JEE) Main
2015	Fellowship Award	Kishore Vaigyanik Protsahan Yojana (KVPY)
2014	Top 1.33% of 3L+	National Talent Search Examination (NTSE)
2014-15	Merit Scholarship Award	Science courses, High School
2008-15	Scholar Platinum Medal	Academic courses, High School
2011	Gold Medallist	English courses, High School
2010	IOM Silver Medallist	International Olympiad of Mathematics
2010	IMMO Silver Medallist	International Master Mathematics Olympiad