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Sidhant Bansal

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EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE

BComp in Computer Science
Turing Programme
Minor in Mathematics
Expected Graduation: May 2021
August 2017 - Present
CGPA: 4.82/5.0

DELHI PUBLIC SCHOOL DWARKA

Grad. May 2017 | Delhi, India
Grade 12: 95.4%
President of the computing club

COURSEWORK

Design and Analysis of Algorithms
Randomized Algorithms
Machine Learning
Computer Networks
Operating System
Parallel and Distributed Algorithms
Advanced Linear Algebra
Competitive Programming
Software Engineering

TEACHING

Design and Analysis of Algorithms
Fall 2020
Data Structures and Algorithms
Spring 2018, Fall 2018, Spring 2019

SKILLS

EXPERIENCED:
•Modern C++ •Ocaml •Ruby

INTERMEDIATE:
• Java •SQL • Javascript •Python

OTHERS:
•Git •Vim

LINKS

LinkedIn:// sidhant-bansal
Github:// sidhant007
DevPost:// Sidhant
Codeforces:// sidhant
Kattis:// sidhant-bansal

EXPERIENCE

DRW | Software Engineering Intern

May 2020 - Present | Singapore

- Contributed on open-source issues for the libraries Conda and Numpy.
- Developed performance sensitive internal tools in Modern C++ that improve the workflow of the trading teams.

JANE STREET CAPITAL | Software Engineering Intern

May 2019 - August 2019 | Hong Kong

- Contributed to several projects in post trade and trading system teams. Worked in Ocaml, a functional programming language.
- The projects had high emphasis on parallelism and efficiency.

NUS | Undergraduate Researcher

January 2019 – December 2019

- Designed and analysed an algorithm to establish initial views in the view reconciliation problem for a permissionless distributed peer to peer system.
- Worked under the guidance of Prof Haifeng Yu

XFERS | Software Engineering Intern

May 2018 - August 2018 | Singapore

- A YCombinator Summer 2015 startup. Worked in Ruby on Rails and React.
- Designed and implemented tools to monitor data inconsistency in the system.

PROBLEM SETTER | Competitive Programming

December 2017 - December 2019

- As part of judging panel, designed and tested algorithmically challenging problems for various competitions including ACM-ICPC Regionals, IOI Training Camp of India and Singapore, and NUS course curriculum.

ACHIEVEMENTS

2020	TBA	ACM-ICPC World Finalist
2019	Top 5%	Dean's List for Fall'19
2019	1ST	ACM-ICPC Kaula Lumpur Regional Contest
2019	62ND	ACM-ICPC World Finalist
2018	1ST	ACM-ICPC Yangon Regional Contest
2017	5TH	ACM-ICPC Jakarta Regional Contest
2017	Bronze	International Olympiad in Informatics (IOI)

PROJECTS

WE NOT I(WNI) | A distributed computing solution

NUS Hack&Roll | January 2020

- WNI is a CLI based distributed proof of concept which solves the problem of running computationally intensive distributed code over the internet in a decentralised manner.
- Built in Python using pickle, sockets.io and setuptools.

LIFE | AI Simulation

Personal Project | May 2018

- LIFE is a simulation to train a virtual organism in a using a genetic algorithm to look for food in an optimal way in a two-dimensional world.
- Implemented the Neuro-Evolution of Augmenting Topologies algorithm.
- Built using HTML5, Javascript and Google Graph API