Last Updated on 19th March 2019

Sidhant Bansal

http://sidhantbansal.com | sidhbansal@gmail.com | (+65)-9861-4153

EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE

BComp in Computer Science
Minor in Mathematics
August 2017 - May 2021
CGPA: 4.74/5.0

DELHI PUBLIC SCHOOL DWARKA

Grad. May 2017 | Delhi, India
Grade 12 - 95.4%
Grade 10 - 10 GPA
President of the **computing club**

COURSEWORK

Design and Analysis of Algorithms
Randomized Algorithms*
Machine Learning*
Computer Networks
Parallel and Distributed Algorithms*
Advanced Linear Algebra
Competitive Programming
Software Engineering
** Ongoing Courses*

TEACHING

Data Structures and Algorithms:
Fall 2018, Spring 2018, Fall 2019

SKILLS

EXPERIENCED:
•C++ •Ruby •Javascript

INTERMEDIATE:
•Java •SQL •React

OTHERS:
•Git •Vim

LINKS

LinkedIn:// **sidhantbansal**
Github:// **sidhant007**
DevPost:// **sidhant**
Codeforces:// **sidhant**
Kattis:// **sidhant-bansal**

EXPERIENCE

NATIONAL UNIVERSITY OF SINGAPORE | Researcher

January 2019 – Present

- Developing **distributed algorithm** to establish initial views in the view reconciliation problem for a **permissionless distributed peer to peer** system.
- Working under the guidance of **Prof Haifeng Yu**

XFERS | Software Engineering Intern

May 2018 - August 2018 | Singapore

- A full stack engineer at **Xfers**, a YCombinator Summer 2015 startup. Worked in **Ruby on Rails** and **React**.
- Designed and implemented internal tools to monitor data inconsistency in the system. All code was reviewed and pushed in production.

ACM-ICPC | Problem Setter

December 2017 - December 2018

- Designed and tested **algorithmically challenging problems** for the **ACM-ICPC Indian Regionals** sites.
- These problems were attempted by 300+ teams nationwide during the regional contests.

TECHNICAL BLOG WRITING | CONTRIBUTOR

March 2016

- Wrote a 2 post series titled **FFT - The tough made simple**, on Codeforces.
- Explained the mathematics behind **Fast Fourier Transform (an optimisation algorithm)**.
- Received over 350+ upvotes from the Codeforces community.

ACHIEVEMENTS

2018	1ST	ACM-ICPC Yangon On-Site Regional Contest
2017	5TH	ACM-ICPC Jakarta On-Site Regional Contest
2017	Bronze	International Olympiad in Informatics (IOI)

PROJECTS

LIFE | AI Simulation

Personal Project | May 2018

- **LIFE** is a simulation to train a virtual organism to look for food in an optimal way in a two-dimensional world.
- Implemented a variant of **genetic algorithm** known as **Neuro-Evolution of Augmenting Topologies(NEAT)**.

GEOTRONER | Real-time Multiplayer Game

NUS Hack&Roll | January 2018

- Won under the top 8 category for our project, **GeoTroner** a real-time multiplayer online game.
- Based on geographical location of the user inspired from the game Tron and Pokemon Go.
- Built using NodeJs, Google Maps API and Bootstrap.