

# Aviral Goel

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## EDUCATION

### NORTHEASTERN UNIVERSITY

MS IN COMPUTER SCIENCE

2016 - 2017 (Expected) | Boston, MA

### NETAJI SUBHAS INSTITUTE OF TECHNOLOGY

B.E. IN ELECTRONICS AND

COMMUNICATION ENGINEERING

2008 - 2012 | New Delhi, India

First Class with Distinction

Aggregate : 81.56%

### DELHI PUBLIC SCHOOL, DWARKA

ALL INDIA SENIOR SCHOOL

CERTIFICATE EXAMINATION (XII

CBSE)

2007 - 2008 | New Delhi, India

Aggregate : 94.40%

## LINKS

Github:// [aviralg](#)

LinkedIn:// [aviralgoel](#)

## COURSEWORK

### GRADUATE

Program Design Paradigms

Principles of Programming Languages

### UNDERGRADUATE

Programming I, II, III, IV, V

Microprocessors

Computer System Organization

Digital Circuits and Systems

## SKILLS

### PROGRAMMING

Proficient in:

Python • C++ • C

Racket • Javascript

Good working knowledge of:

CSS • Mathematica

PHP • Matlab

Shell Scripting • Java

Haskell • MySQL

## HOBBIES

Origami • Violin

## EXPERIENCE

### INSTITUTE FOR STEM CELL BIOLOGY AND REGENERATIVE MEDICINE, DEPARTMENT OF BIOTECHNOLOGY

TECHNOLOGY MANAGER

Feb 2015 – Dec 2015 | Bangalore, Karnataka, India

- Extended a **3D visualizer** for neuronal network simulations with more features.
- Enhanced **user experience** and **graphing** capabilities of neuronal network simulation software.

### NATIONAL CENTER FOR BIOLOGICAL SCIENCES, TIFR

PROGRAMMER

Sep 2013 – Feb 2015 | Bangalore, Karnataka, India

- Designed a **3D graphics** software for visualizing electrical and chemical activity in neuronal network simulations.
- Enhanced **Graphical User Interface** for setting up neuronal network simulations and **visualizing** results.

### YAHOO! SOFTWARE DEVELOPMENT INDIA PRIVATE LIMITED

SOFTWARE ENGINEER

July 2012 – Aug 2013 | Bangalore, Karnataka, India

- Designed a **data analytics** dashboard for aggregating and visualizing product usage trends with automatic updates and reporting capabilities.
- Aggregated statistics from **big data** sets on **Hadoop** cluster using **Apache Pig**.

### ROYAL BANK OF SCOTLAND | INTERN

June 2011 – July 2011 | Gurgaon, Haryana, India

- Studied the design of a FIX (protocol for financial transactions) engine, Banzai, written in **Java**.

### SIEMENS LIMITED | INTERN

June 2010 – July 2010 | New Delhi, India

- Designed a version management software for a power plant automation and management software installed on multiple nodes in the network.

## POSTERS

### MODELLING MEMORY ACROSS SCALES

ANNUAL TALKS 2015 | NCBS, TIFR, BANGALORE, INDIA

Subhasis Ray, Harsha Rani, Aditya Gilra, Sahil Moza, Aviral Goel, Dilawar Singh, Upinder Bhalla

### MODELLING MOLECULES TO BRAINS WITH MOOSE

ANNUAL TALKS 2014 | NCBS, TIFR, BANGALORE, INDIA

Aviral Goel, Harsha Rani, Dilawar Singh, Subhasis Ray, Niraj Dudani, Upinder Bhalla

## PUBLICATIONS

- [1] N. Baharadwaj, S. Wadhwa, P. Goel, I. Sethi, C. S. Arora, A. Goel, S. Bhatnagar, and H. Parthasarathy. De-noising, clustering, classification, and representation of microarray data for disease diagnostics. In R. Srivastava, S. K. Singh, and K. K. Shukla, editors, *Research Developments in Computer Vision and Image Processing: Methodologies and Applications*, chapter 9, pages 149–174. IGI Global, September 2013.