

EDUCATION

UNIVERSITY OF ST ANDREWS

BSc (Hons) in Computer Science

Grad. June 2017

Final grade - Upper Second Class

Direct Second Year Entry

CS5011: Artificial Intelligence Practice

CS5012: Language & Computation

CS4052: Logic & Software Verification

CS4303: Video Games

CS3302: Data Encoding

CS3106: HCI

CS3051: Software Engg

BLUEBELLS SCHOOL INT

Grad. May 2014 | New Delhi, India

Computer Science, Physics,
Chemistry, Math & English

12th CBSE - 93%

10th CBSE - 9.2 CGPA

COURSEWORK

YEAR 4

Neural Networks - 20 question game

Symbolic search AI

Rogue-like game development with AI

YEAR 3

Collaborative Web App

Checkers AI

Algorithm Reductions (complexity)

Adaptive Huffman Compression

SCRUM - News Aggregation Tool

TDD

YEAR 2

Twitter Data Mining using MapReduce

P2P chat using NodeJS

File sharing application in Java

Diamond Game in Python

Complexity Analysis of Quicksort

SKILLS

PROGRAMMING

Over 10000 lines:

Java • Python • Javascript (Typescript)

Over 5000 lines:

C • C++ • PHP • MySQL

Familiar:

Lua • Objective-C • Assembly

TOOLS

Angular2 • NodeJS • MongoDB

Bash • Vim

DISSERTATION

SCRIPT IDENTIFICATION WITH EGYPTIAN HIEROGLYPHS

Sept 2016 - April 2017

- The aim of the project was to extend an existing Hieroglyph OCR tool to distinguish between modern and ancient texts.
- A **Convolutional Neural Network** was implemented and optimised to classify the text.
- 96.875% accuracy was obtained using the model.

EXPERIENCE

HINDUSTAN POWERPROJECTS LTD. | Intern

June 2015 - August 2015 | New Delhi, India

- Integrated an IT Asset Management Software for the office consisting of 1000+ machines.
- Functionality included automatic network monitoring, notifications, and aggregation of data in graphs for analysis, help desk etc.

ENIAC | President

June 2013 - May 2014 | New Delhi, India

- Led a team of 8 members and hosted an inter-school competition (300+ participants).
- Built the event website which hosted online registration.

BLUEBELLS SCHOOL INTERNATIONAL | Web Developer

December 2012 - March 2013 | New Delhi, India

- Developed the school's website which serves 100,000+ visitors per month.
- Taught selected students and teachers maintenance strategies.

PERSONAL PROJECTS

PLAYLISTER July 2015 - Present

- Music discovery web-app using content aggregated from Youtube and Reddit.
- Lets you create, modify, and view personal and shared Youtube playlists.
- Built using the latest technology stack — **Angular 2**, **Typescript**, **NodeJS** and **MongoDB**.

CHANGEINDIAWITHUS December 2012 - December 2013

- Startup to spread awareness about the country. Consisted of a forum, where people could voice their opinions, and a blog about selected news articles updated very frequently.
- 1000+ views every day over the course of several months.

AWARDS

2014 School

2014 School

2012 International Rank 7

2011 Regional Rank 3

2009 School Rank 1

2009 School

Innovation and Creativity Award

6 year scholar (4 in succession)

International Informatics Olympiad

Sudoku Competition

International Math Olympiad

Best basketballer of the year