

Yash Srivastav

SOPHOMORE · COMPUTER SCIENCE AND ENGINEERING

Indian Institute of Technology, Kanpur

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Education

Indian Institute of Technology Kanpur

BACHELOR OF TECHNOLOGY, MAJOR IN COMPUTER SCIENCE AND ENGINEERING

- Cumulative Grade Point/ CGPA: 8.8/10

Kanpur, India

2015 - 2019 (Expected)

Birla High School

ALL INDIA SENIOR SCHOOL CERTIFICATE EXAMINATION (CBSE)

- Overall Percentage: 96.6%

Kolkata, India

May 2015

The Assembly of God Church School

INDIAN SCHOOL CERTIFICATE EXAMINATION (CISCE)

- Percentage: 96.6%

Kolkata, India

May 2013

Academic Achievements & Scholarships

2015 **All India Rank 105**, Joint Entrance Exam Advanced

India

2015 **All India Rank 288**, Joint Entrance Exam Mains

India

2015 **All India Rank 12**, KVPY Scholarship

Bangalore, India

Work Experience

New York Office, IIT Kanpur

FULL STACK DEVELOPER, UNDER PROF. MANINDRA AGARWAL

- Worked on a scalable web application with an extensive technology stack.
- Used Scala with Akka and Couchbase among other technologies for developing the backend.
- Implemented Notifications, XSRF & XSS Protection and a method to batch process api requests as part of the backend api.
- Technology used: Scala with Akka, Angular with TypeScript

Kanpur, India

May, 2016 - Present

Projects

Antaragni'16

SENIOR WEB EXECUTIVE

- Used the full MEAN Stack for a fest webapp and its admin control panel
- Dynamic website with content easily changeable via the control panel
- Supported Android App as well with an API

IIT Kanpur

July'2016 - Oct'2016

ABU Robocon 2016

MEMBER, TEAM ROBOCON IIT KANPUR, PROF. BHASKARDAS GUPTA

- An autonomous robot, which did not contain a driving actuator had to traverse a game field using the energy provided to it by another robot in form of a non contact force.
- I was involved in **Image Processing** used in the autonomous robot for **color detection** and **line following** to traverse the arena
- Came **3rd** out of 105 teams participating in Nationals at Pune, India

IIT Kanpur

Oct'2015 - Mar'2016

Reversi Game in Python

ASSOCIATION OF COMPUTING ACTIVITIES

- Developed a Python Application using Pygame for 2 player as well as single player Reversi gameplay in a team of 2
- Uses the negamax algorithm with an efficient heuristic check for better performance against humans
- Mid Semester project under the Association of Computing Activities (ACA), IIT Kanpur
- Link: Reversi

IIT Kanpur

2nd Semester

Smart Mirror

PROGRAMMING CLUB

- Built an IoT Mirror with an RPi and a display fitted with a 75% reflecting mirror
- The mirror had features such as weather forecast, calendar notifications and pushbullet notifications of a user (determined via face identification)
- Received Best Applicable Project amongst all summer projects under the Science and Technology Council, IIT Kanpur

IIT Kanpur

Summer'2016

- Developed an App to help connect teachers and learners
- Used cross-platform **Universal App Platform** for Windows 10 and a server written in C#
- Was selected as one of the best five ideas

Skills

Programming *Proficient:* C/C++, Java, Python, Javascript; *Experienced:* Golang, Scala

Web Express.js with Node.js, Akka with Scala, JavaScript, TypeScript, Angular

Operating Systems Arch Linux, Debian

Utilities Linux shell utilities, Git, Vim, Docker, MongoDB, OpenCV, \LaTeX , Vim

Coursework

Introduction to Programming(A*)

Discrete Mathematics

Logic in Computer Science

Computer Organization(*i*)

Data Structures and Algorithms(*i*)

Probability and Statistics(*i*)

A:* Grade for exceptional performance *i:* In progress

Miscellaneous

- Developed a simple android app which acts as Websocket Client for a Websocket Server hosting a multiplayer game
- Contribute to Open Source projects like pdf.js and thelounge
- Won Fresher's Science Quiz
- Among the top 15 teams of India in CSAW 2016, Capture The Flag
- Mentored 6 students in building a web chat application using nodejs and websockets as part of ACA Semester Projects

Interests

- Open Source
- Capture The Flag Contests
- Web Development
- Image Processing
- Artificial Intelligence
- Robotics