Yash **Srivastav**

Junior Undergraduate · Computer Science and Engineering

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Educational Qualifications

Year	Degree	Institution(Board)	CGPA/%
July'15 – Present	B.Tech, CSE	Indian Institute of Technology, Kanpur	9.1/10.0
2015	AISSCE – XII	Birla High School, Kolkata (CBSE)	96.6%
2013	ICSE – X	AG Church School, Kolkata (CISCE)	96.6%

Scholastic Achievements

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

Google Summer of Code

OpenPrinting, The Linux Foundation   *Summer 2017*

- Worked on the Common Printing Dialog Project.
- Allows easy integration of any new printing systems into existing applications.
- Helped design the DBus API and decide its usage.
- Implemented the DBus API in the LibreOffice code.
- Technologies Used: DBus, C++, CUPS, Google Cloud Printing

New York Office, IIT Kanpur   *Kanpur, India*

Full Stack Developer, under Prof. Manindra Agarwal   *May. 2016 - Present*

- Summer Internship continued as a volunteer and peer mentor.
- 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 & XSSI Protection and a method to batch process api requests as part of the backend api.
- Integrated ProseMirror into an existing Angular App
- Technologies used: Scala with Akka, Angular with TypeScript

Projects

Dashboard Web Extension/App   *IIT Kanpur*

Inter IIT Tech Meet   *February, 2017*

- Involved creating a web extension which acted as a user's home page and helped display all the information relevant to a student studying in IIT Kanpur in a main Dashboard. (News, Events, Student Search, Share Auto)
- Server Side was implemented as multiple **microservices** in various languages (Golang, Python, NodeJS) involving IPC via **JSON RPC**.
- Fully **Dockerized backend** running on a docker-compose setup. Written with **scalability** in mind. (github.com/yashsriv/beethoven)
- Judged **1**ˢᵗ among all the IITs participating in the competition.

Smart Mirror   *IIT Kanpur*

Programming Club   *Summer'2016*

- 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 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.

ABU Robocon 2016   *IIT Kanpur*

Member, Team Robocon IIT Kanpur, Prof. Bhaskardas Gupta   *Oct'2015 - Mar'2016*

- 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 **3**ʳᵈ out of 105 teams participating in Nationals at Pune, India.

Antaragni'16

IIT Kanpur

SENIOR WEB EXECUTIVE

July'2016 - Oct'2016

- 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.

Reversi Game in Python

IIT Kanpur

ASSOCIATION OF COMPUTING ACTIVITIES

2nd *Semester*

- Developed a Python Application using **Pygame** for 2 player as well as single player Reversi gameplay.
- 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: github.com/yashsriv/Reversi-Python

Code.Fun.Do

Microsoft India

24 HOUR HACKATHON

Sept'2015

- 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**.

Relevant Courses

Introduction to Programming(A∗)	Discrete Mathematics	Logic in Computer Science
Computer Organization	Data Structures and Algorithms	Probability and Statistics(A∗)
Computing Laboratories - 1(A∗)		

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

Positions of Responsibility

- Secretary, Programming Club, IIT Kanpur 2016-17
- Coordinator, Programming Club, IIT Kanpur 2017-18
- Senior Executive, Web, Antaragni 2016
- Head, Web, Antaragni 2017

Skills

Programming	*Proficient:* C/C++, Golang, Python, Javascript; *Experienced:* Java, Scala
Web	Express.js with Node.js, Akka with Scala, JavaScript, TypeScript, Angular
Utilities	Linux shell utilities, Git, Docker, MongoDB, OpenCV, LaTeX, Vim

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