Yash Srivastav

Final Year Undergraduate
Department of Computer Science and Engineering
Indian Institute of Technology, Kanpur

yash111998@gmail.com ✉
https://yashsriv.org ⌂
yashsriv ⍥ | yashsriv **in**
+91-7054133662 ☎

Educational Qualifications

Year	Degree	Institution(Board)	CGPA/%
July'15 – June'19 (expected)	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

- Rank 105, JEE Advanced (amongst 120,000 candidates)
- Rank 288, JEE Main (amongst 1.3 million candidates)
- All India Rank 12, KVPY Scholarship

Projects

Dashboard Web Extension/App github://yashsriv/beethoven
Inter IIT Tech Meet February, 2017
- Involved creating a web extension which acted as a user's home page and displayed relevant information to a student.
- Server Side was implemented as multiple **microservices** in various languages involving IPC via **JSON RPC**.
- Fully **Dockerized backend** running on a docker-compose setup. Written with **scalability** and speed in mind.
- Judged **1st** among all IITs participating in the competition.

ABU Robocon 2016 *IIT Kanpur*
Member, Team Robocon IIT Kanpur Oct'2015 - Mar'2016
- An autonomous robot, which did not contain a driving actuator had to traverse a game field using energy provided to it by another robot in form of a non contact force.
- Was involved in **Image Processing** used in the autonomous robot for **color detection** and **line following**
- Came **3rd** out of 105 teams in Nationals at Pune, India.

Smart Mirror github://11000011/Smart-Mirror
Programming Club, Best Applicable Project Summer'2016

Reversi Game in Python github://yashsriv/Reversi-Python
Association of Computing Activities, IIT Kanpur 2nd Semester

tango (*golang to x86 assembly*) github://yashsriv/tango
Course Project, Compiler Design, Jan'2018-April'2018

Branch Predictor github://yashsriv/branch-predictor
Course Project, Computer Architecture, Best Predictor April'2018

Connect 4 AI in haskell github://yashsriv/haskell-connect-4
Course Project, Functional Programming Jan'2018-April'2018

Code.Fun.Do *Best 5 ideas*
24 Hour Hackathon, Microsoft India Sept'2015

go-nachos github://yashsriv/go-nachos
Self Project, Ported nachOS to golang Dec'2017

Miscellaneous

- Expoited and patched the zoobar server as part of Computer Systems Security Course
- Developed an android app which was a 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 in inter-hall annual competition
- Among the top 15 teams of India in CSAW 2016, CTF
- Mentored 6 students in building a chat application

Relevant Courses

Introduction to Programming(A∗)	Discrete Mathematics	Computer Organization	Computer Architecture
Data Structures and Algorithms	Probability & Statistics(A∗)	Computing Lab - 1(A∗)	Computing Lab - 2(A∗)
Compiler Design	Functional Programming(A∗)	Computer Systems Security	Computer Networks(i)

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

Work Experience

New York Office, IIT Kanpur *India*
Full Stack Developer, Prof. Manindra Agrawal May 2016 - Present
- Summer Intern continued as a volunteer & peer mentor.
- Worked on a scalable web application with an extensive technology stack using Postgres, Couchbase, Kafka, etc.
- Implemented Notifications, XSRF & XSSI Protection and batch processing of api requests in the backend API.
- Integrated ProseMirror into an existing Angular App
- Reimplemented an entire Angular application as per the redux architecture for easy extensibility and modularity.

New York University *New York City, USA*
Summer Intern, Prof. Justin Cappos May 2018 - July 2018
- Worked on setting up an one-shot ansible project to enable organizations to easily set up debian package rebuilding infrastructure for independent verification of packages.
- Implemented three different microservices to orchestrate the entire setup and seamlessly display results via an API.
- Interacted with the reproducible-builds community to get feedback and design decisions approved.
- Added support for ed25519 cryptographic keys to the supply chain security framework - in-toto.

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 implementing the interface.
- Helped design the DBus API and decide its usage.
- I worked with dbus and implemented the frontend print dialogs to the dbus interface in Libreoffice codebase.

Localites *Freelance*
Full Stack Developer Dec 2018 - Apr 2018
- Worked on a web application using the MERN stack.
- Rewrote the entire nodejs server in typescript with unit testing in jasmine for type-checking and code reliability.
- Also rewrote react app into an NgRx based angular app for better code organization and structure.

Positions of Responsibility

- **Head, Web**, *Antaragni 2017*
- **Coordinator**, *Programming Club, IIT Kanpur 2017-18*

Skills

Proficient: C, Golang, Python, Javascript
Experienced: C++, Java, Scala, Android
Exposure: Haskell, Rust, Dart, Perl
Web: Angular, Akka, TypeScript, Redux, Flutter
Utilities: Shell Utilities, Git, Docker, Ansible, PostgreSQL, MongoDB, OpenCV, LaTeX, Vim, Emacs, Vagrant