Yash Srivastav

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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

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.

Positions of Responsibility

- **Head, Web**, *Antaragni 2017* :
  Worked on a full MEAN stack application. As part of the Core Team was involved in decisions regarding the festival and was responsible for managing the stays and travels of all Celebrities and Artists invited to the event.
- **Coordinator**, *Programming Club, IIT Kanpur 2017-18* :
  Conducted lectures for freshmen and organised competitions. Took the initiative of conducting a **"Winter Camp"** where a select few freshmen were introduced to various topics.

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

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