

YASH SRIVASTAV

Software Engineer
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WORK EXPERIENCE

Facebook, London *United Kingdom*
Software Engineer August 2019 - Present

- University Graduate Recruit
- Developed features for Workplace by Facebook, one of the fastest growing SaaS products in the world.
- Currently working on Messenger

New York Office, IIT Kanpur *India*
Full Stack Developer, Prof. Manindra Agrawal May 2016 - May 2019

- 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 & XSS 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 2019

- 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.

MISCELLANEOUS

- Contribute to Open Source projects like pdf.js and thelounge
- Among the top 15 teams of India in CSAW 2016, CTF
- Teaching Assistant for the course CS251: Computing Laboratories
- Exploited 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
- Won Fresher's Science Quiz in inter-hall annual competition

PROJECTS

Dashboard Web Extension/App [github://yashsriv/beethoven](https://github.com/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.

Live Lecture Streaming (websockets + webRTC)
[github://yashsriv/networks-video-stream](https://github.com/yashsriv/networks-video-stream)
Course Project, Computer Networks Nov'2018

Branch Predictor [github://yashsriv/branch-predictor](https://github.com/yashsriv/branch-predictor)
Course Project, Computer Architecture, Best Predictor April'2018

Connect 4 AI in haskell [github://yashsriv/haskell-connect-4](https://github.com/yashsriv/haskell-connect-4)
Course Project, Functional Programming Jan'2018-April'2018

tango (golang to x86 assembly) [github://yashsriv/tango](https://github.com/yashsriv/tango)
Course Project, Compiler Design, Jan'2018-April'2018

go-nachos [github://yashsriv/go-nachos](https://github.com/yashsriv/go-nachos)
Self Project, Ported nachOS to golang Dec'2017

Smart Mirror [github://11000011/Smart-Mirror](https://github.com/11000011/Smart-Mirror)
Programming Club, Best Applicable Project Summer'2016

Reversi Game in Python [github://yashsriv/Reversi-Python](https://github.com/yashsriv/Reversi-Python)
Association of Computing Activities, IIT Kanpur 2nd Semester

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.

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

SKILLS

Proficient: Javascript, Hack, C, Golang, Python,

Experienced: C++, Java, Scala

Exposure: Haskell, Rust, Dart, Perl, Android

Web: React, Relay, Angular, Akka, TypeScript, Redux

Utilities: Shell Utilities, Git, Docker, Ansible, PostgreSQL, MongoDB, OpenCV, L^AT_EX, Vim, Emacs, Vagrant

EDUCATIONAL QUALIFICATIONS

B.Tech, Computer Science and Engineering *9.1/10.0*
Indian Institute of Technology, Kanpur July'15 - June'19

AISSCE - XII *96.6%*
Birla High School, Kolkata 2015

ICSE - X *96.6%*
AG Church School School, Kolkata 2015