Yash Srivastav
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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 & 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.

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
- 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
- Won Fresher's Science Quiz in inter-hall annual competition

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 **1**st among all IITs participating in the competition.

Live Lecture Streaming (websockets + webRTC)
github://yashsriv/networks-video-stream
Course Project, Computer Networks — Nov'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

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

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

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

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 **3**rd 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, LaTeX, 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