

YASH JAKHOTIYA

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WORK EXPERIENCE

JULY 2020 – PRESENT

SITE RELIABILITY ENGINEER – QUANT SYSTEMS, D.E. SHAW, HYDERABAD

- Directly managing firm's **on-prem cloud** made of >3000 Linux hosts that supports compute intensive trading jobs.
- Developing and upgrading in-house software built on top of the likes of **Mesos, GPFS, ELK, Puppet** and **systemd**.
- As a Summer **2019 Intern**, **automated** alert assignments using ML, building on highly heterogenous data.
- **Pushed to prod** before end of the internship, reducing workload of an entire team by **86%**.

JUNE 2020 – AUGUST 2020

GOOGLE SUMMER OF CODE STUDENT, KUBEFLOW, GOOGLE CLOUD PLATFORM

- Demonstrated efficient use of all 6 major components of **Kubeflow** with **ML pipelines** in well-crafted notebooks.
- Impacted new **customer onboarding** significantly, bringing in **more adoption** of the product.
- Details of the project - <https://yashjakhotiya.github.io/blog/>

MAY 2018 – JULY 2018

RESEARCH INTERN, INDIAN INSTITUTE OF SCIENCE, BANGALORE

- Research and development work in **Deep Learning** for the institute's Video Analytics Lab.
- The project focused on **sequence to sequence modelling** with **Generative Adversarial Networks**.
- Also systematized their **ML workflow**. The work led to a **research paper** after the end of the internship.
- Lab website – <http://val.serc.iisc.ernet.in/valweb/>

PROJECT WORK

SEPTEMBER 2019 – OCTOBER 2020

INITIATOR, ASSOCIATION OF STUDENTS OF CE AND IT, COEP

- Built a **Transformer**-based malware detector and showed its vulnerabilities to **adversarial attacks**.
- Worked with **Credit Suisse India** on equity price prediction using **multilayered RNNs**.
- Secured an accuracy of 80% in **Flipkart GRID Challenge** on bounding box prediction in images.
- Worked with **HP India** for human detection in live video streams for their data center safety.
- Created a common **platform** for all students of the department to seek **guidance** and **help** from each other.
- Project Sources – <https://github.com/yashjakhotiya>

APRIL 2017 – MAY 2018

ONBOARD COMPUTER SUBSYSTEM, COEP'S 2ND STUDENT SATELLITE INITIATIVE

- Created a **BCH Error Correcting Code** module for onboard memory.
- Team's last satellite was launched by **ISRO** in June 2016 and it successfully completed its objective.

EDUCATION

OCTOBER 2020

COMPUTER ENGINEERING, COLLEGE OF ENGINEERING, PUNE

- CGPA – 9.20/10.
- Was selected twice for **ACM-ICPC** regionals and secured a place amongst top 2%.
- Coordinator of **FOSS activities** in college, contributed to and raised awareness about FOSS.
- **Perfect grade** in Algorithms, Blockchains, Computer Networks, Databases, Data Science, Probability and Statistics for Computing, Network Security, Theory of Computing, and other courses

MAY 2016

HSC, THE ENGLISH JR. COLLEGE

- Common Entrance Test score – 92%.
- Highest Scorer in **Computer Science** and **Physics** pre-college courses.

MAY 2014

SSC, MOUNT CARMEL HIGH SCHOOL

- Score – 95.6%.
- National Cyber Olympiad – **State Rank 1, National Rank 7**.
- **Winner**, Inter-House Debate, *Team Leader*.
- **Winner**, School-level Computer Quiz, *Team Leader*.

PROFESSIONAL SKILLS

- **Python** (Pytorch, Tensorflow, Keras, Pandas, Scikit-Learn, Numpy, Scipy, Matplotlib, Seaborn, BeautifulSoup, Flask), **Kubernetes**, **Jupyter**, **Linux Server Management**, **Puppet**, **ELK**, **Shell Scripting**, **SQL**, **Matlab**, **C++** and **C**.
- Strong hold over **Data Structures**, **Algorithms**, **Machine Learning**, **System Engineering** and **Cloud** concepts.