

# NILAY SHRIVASTAVA

## Software Engineer

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📍 Delhi, India

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## EXPERIENCE

### Member of Technical Staff

#### Adobe Systems

📅 Aug 2019 – Present

📍 Noida, India

- Working on Adobe Experience Manager Cloud. Project involves developing new features for enhancing customer experience.

### Product Intern

#### Adobe Systems

📅 May 2019 – July 2019

📍 Noida, India

- Worked with Adobe Data Science Research team on Quantum Machine Learning. Formulated new quantum generative models for photonic quantum computers.
- Wrote a paper which has been submitted to QTML conference.

### Research Intern

#### Multimodal Digital Media Analysis Lab, IIIT-Delhi

📅 Sep 2018 – Present

📍 Delhi, India

- Worked on developing neural architecture (named MobiVSR) for Visual Speech Recognition (Lip Reading) on resource constrained devices under Dr. Rajiv Ratn Shah at IIIT Delhi. This is the **first time** when Lipreading application has been built for mobiles.
- Paper selected for **oral presentation** at InterSpeech2019 (Graz, Austria).
- Contact: Dr. Rajiv Ratn Shah (rajivrtn@iiitd.ac.in)

### Software Engineering Intern

#### Samsung Research

📅 May 2018 – July 2018

📍 Bengaluru, India

- Built an Efficient Recurrent Neural Network architecture to implement features like Smart Reply and Doodle recognition for embedded system.
- Wrote custom C++ Tensorflow operations for Tizen platform.

### Research Intern

#### Zeg.ai

📅 May 2017 – July 2017

📍 Delhi, India

- Zeg.ai is a computer vision startup working to create 3D models.
- Project involved working on Generative Adversarial Networks to create 3D voxels from 2D images.
- Built the organization website (<https://www.zeg.ai/>).

## ACHIEVEMENTS

## SKILLS

Reactjs, Kubernetes, Docker, D3.js ●●●

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C++, Python, Java ●●●●●●

Keras, Tensorflow, Pytorch, Lua ●●●●●●

## EDUCATION / COURSES

### Bachelor of Engineering

#### Netaji Subhas Institute of Technology

📅 Aug 2015 – May 2019

- Percentage - 83.45

## PUBLICATIONS

- **MobiVSR: A Visual Speech Recognition Solution for Mobile Devices.** Selected for oral presentation at Interspeech 2019. [Paper](#)
- **Greedy WOA for Travelling Salesman Problem.** Conference paper published as a Springer book chapter (ICACDS 2018, ISBN: 978-981-13-1813-9)

## PROJECTS

### Qu.js

- A Javascript framework for writing cross-platform Quantum Programs.
- Qu.js provides a framework to define Quantum circuits and run them locally or on IBM Q computers and Rigetti Quantum Systems.
- [Github](#)

## EXTRA-CURRICULARS

### A.R.E.S Mars Rover Team (Co-founder & Head of Autonomous Systems)

- Team ARES represents NSIT in University Rover Challenge.
- Built the autonomous traversal software using YOLO and Simultaneous Localization and Mapping algorithms.

### CollegeSpace (Web Developer)

- [CollegeSpace](#) is the socio-academic portal of NSIT students.
- Lead the team that developed new features and pages for the portal.

- **MERIT SCHOLARSHIP, UNIVERSITY OF DELHI NSIT** - Awarded to top 10 students in computer engineering department every year, accompanied by full tuition fee waiver. Won the award for three consecutive years (2015-17)
  - **Yajie Miao Memorial Award (2019)** - Awarded to 3 young researchers all over the world in the field of speech processing. The awardees are provided travel grant to attend Interspeech conference.
  - **First Position Vihaan 2.0 IEEE Hackathon, Delhi Technological University (2019)**. Stood first among 200 teams taking part in this hackathon. Demo of the project on [YouTube](#)
  - **KISHORE VAIGYANIK PROTSAHAN YOJNA (KVPY), GOVERNMENT OF INDIA (2013)** - Stood 71st in KVPY examination conducted all over India. Awarded scholarship up to pre-PhD level by Ministry of Science and Technology
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## TALKS

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### SPEAKER AT PYDATA-INDIA CONFERENCE-2018

- [PyData](#) is an international community of data scientists, students and professionals under the umbrella of NumFocus.
- Gave a talk titled 'Quantum Computation for Dummies!' to explain principles of Quantum Computing from purely Computer Science perspective.
- [Slides](#).

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