Jyotishmaan Tripathi

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Education

Birla Institute of Technology and Science, Pilani, India

August 2015–July 2020 (Expected)

- Bachelor of Engineering in Electrical and Electronics.
- Master of Science in Mathematics.
- Coursework includes Operating Systems, Object Oriented Programming, Microprocessors, Probability and Stochastic Systems, Linear Algebra, Multivariable Calculus and Operations Research.

Experience

Software Development Intern, Sling TV, Bangalore

May 2019-Present

- Worked on the integration of the commercial skipping feature AutoHop for AirTV classic.
- Developed scripts to automate the process of migrating the metadata required for commercial skipping from Dish ecosystem to Sling ecosystem.
- Worked with Python, HTTP requests, FTP server requests and JSON.

Software Development Intern, Techture, Nagpur

December 2017–January 2018

- Designed and developed a web application prototype for clients to create 2D plans which are converted to
 3D Revit models made of prefabricated components using Revit API.
- Used Java, HTML/CSS, mySQL and Google web toolkit.

Research Intern, Solid State Physics Lab, DRDO, New Delhi

May 2018-July 2018

 Designed an ultra-wideband low noise amplifier using resistive feedback topology which is comparable in performance to distributed amplifiers but with significantly reduced power consumption.

Projects

Foreground segmentation in HEVC encoded videos

January 2019-May 2019

- An approach to detect motion of objects using residual data in HEVC encoded videos. The residual data represents the texture information of the signal to be coded.
- The algorithm was tested for videos with jitter and dynamic backgrounds.
- Used MATLAB, ffmpeg and GITL HEVC Analyzer.

Quiz Generator

January 2019

- A tool that enabled one to randomly generate a quiz test questionnaire containing the specified number of questions from the question bank.
- Used Java, Swing, mySQL and Java Database Connectivity API.

Activities

Teaching volunteer, People for Human Dignity, New Delhi
Hostel Sports Secretary and Member of Sports Union, BITS Pilani
Captain, Swimming Team, BITS Pilani

May 2016–December 2017 August 2018–May 2019 November 2017–May 2018

Skills

Programming Languages and Frameworks

Java, Python, HTML/CSS, JavaScript, Bootstrap, MATLAB, Git, IATEX.

Concepts

Object-Oriented Programming, Data Structures and Algorithms, Mathematical Reasoning, Teaching.

Languages

- English, Hindi.