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
- Wrote scripts to automate the process of migrating the meta-data required for commercial skipping from Dish ecosystem to Sling ecosystem.
- Worked with HTTP requests, FTP server requests and JSON

Software Development Intern, Techture, Nagpur   December 2017–January 2018
- Designed and developed a web application to be used by clients for creating 2D plans which would be converted to 3D Revit models made of prefabricated components using Revit API.
- Used Java, HTML/CSS, SQL 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 was 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

Hostel Sports Secretary and Member of Sports Union, BITS Pilani   August 2018–May 2019
Captain, Swimming Team, BITS Pilani   November 2017–May 2018
Teaching volunteer, People for Human Dignity, New Delhi   May 2016–December 2017

Skills

Programming Languages and Frameworks
- Java, Python, HTML/CSS, JavaScript, Bootstrap, MATLAB, Git, LaTeX.

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

Languages
- English, Hindi.