

Sashank Mishra

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EDUCATION

B.Tech in Information Technology

Indian Institute of Information Technology, Allahabad

07/2016 - 07/2020

8.72/10

Intermediate - 12th (ISC)

Guru Har Rai Academy, Kanpur

2015

96%

Matriculation - 10th (ICSE)

Guru Har Rai Academy, Kanpur

2013

93.33%

WORK EXPERIENCE

Software Development Engineer - I

Cisco Systems Inc.

08/2020 - Present

Achievements/Tasks

- Working under a dynamic team, under Mass-Scale Infrastructure (MIG) Group, to develop Solution Test Automation for Cloud Native Broadband Network Gateway (CnBNG)
- Developed the complete CnBNG automation for the testing scenarios defined, using the internal testing framework along with open source testing tools such as Pytest and Allure.
- Technology Stack – Python, Spirent Test Center, Netconf/YANG, IOS-XR, Kubernetes

Software Development Intern

Cisco Systems Inc.

01/2020 - 06/2020

Achievements/Tasks

- Worked to develop Infrastructure for Solution Test Automation for Cloud Native Broadband Network Gateway (CnBNG)
- Developed the support in the Crosswork Qualification Environment (CQE) for interacting with the cloud-deployed Control Plane and IOS-XR deployed User Plane, using both Command-line Interface and through Netconf/YANG
- Created the core infrastructure for handling a new type of OS – cloudnative, for handling the Control Plane, in the environment from scratch.

Research Intern

Inter-University Centre of Astronomy and Astrophysics, Pune

05/2019 - 07/2019

Achievements/Tasks

- The project aims to model the variations in the Zernike Coefficients due to the misalignment of the optical components of the telescope, and then apply various Machine Learning algorithms to accurately predict the exact component having the misalignment, and the actual misalignments
- This tool is proposed to be used in the **Solar Ultraviolet Imaging Telescope (SUIT)**, one of the payloads of the Aditya-L1 mission of **Indian Space Research Organization (ISRO)**

SKILLS

Python

Java

C

C++

Git

Netconf/YANG

Kubernetes

Docker

Keras

Scikit-learn

Numpy

Android

Django

NOTABLE PROJECTS

Reinforcement Learning And Its Application in Smart Electricity Markets (08/2019 - 12/2019)

- Technology Stack – Python: OpenAI Gym, Tensorflow, Numpy, Scipy, Matplotlib
- The project aims to model a smart market consisting of a single broker, which tries to minimize the difference between the profit and loss and tries to replicate and incubate the dynamic substance of the market.
- Uses the semi-supervised technique of Reinforcement learning, to model the actor, critic and the environment.

Text to Image Generation using Generative Networks (08/2018 - 12/2018)

- Technology Stack – Python: TensorFlow, Tensorlayer, Numpy, Scipy
- The project employs the use of Generative Adversarial Networks (GAN) to convert an input text into corresponding images
- The model has trained on VGG Flowers and UCSD Birds dataset. Also, every image has 10 captions each, relating to corresponding image in the dataset.
- The model used Adam Optimizer to optimize the cost function of the Generative Network.

Aparoksha'18 Campus Ambassador Android Application (12/2017 - 03/2018)

- Technology Stack – Kotlin, Firebase (Realtime Database, Storage, Authentication, Functions, Analytics, Messaging), REST APIs
- The app is centered on a particular user, providing various features.
- Users can upload images for particular tasks, and points are credited appropriately.
- A leaderboard is maintained to view the top 10 users (with maximum points).
- The app is available on Google Play Store, with over 1000 downloads, all over the country.

OPEN-SOURCE EXPERIENCE

Mentor, Google Summer of Code 2020

Mentor for the project Mifos Mobile 5.0, under The Mifos Initiative

Mentor, Google Code-In 2019

Mentor under Tensorflow

EXTRA-CURRICULARS

Head, Technical Department, Pragma '19 - Developer and Design Conference

Coordinator, App Development Wing, GeekHaven - The Technical Society of IIIT Allahabad

Organiser, IIITA Hacks '17

USG Information Services, IIITA MUN '17