

# Shubhesh Swain

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Ehrenbergstrasse 37, 98693, Ilmenau, Germany

## TECHNICAL SKILLS

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**Programming:** C, C++, Python, Shell scripting, HTML, CSS, Javascript

**Machine Learning:** Tensorflow, Keras, Numpy, Scikit-learn

**Data science:** Pandas, SQL, Matplotlib

**Parallel computing:** OpenCL, OpenMP

**Distributed computing:** Hadoop, Hive

**Tools:** SVN, Git, Tableau

## EDUCATION

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MS in Research in Computer and Systems  
Engineering

October 2017 — Present

*TU Ilmenau, Ilmenau (Germany)*

**Selected Coursework:** Algorithms, Information Systems, Software and systems engineering, Distributed database management, Software architecture, Complex embedded systems, Deep learning, a research project on Generative adversarial networks

## WORK EXPERIENCE

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Infosys Limited, Bangalore

March 2016 — September 2017

*Associate Consultant*

- Developed a verification tool for verifying huge OASIS and GDS semiconductor files.
- Resolved Comcast's router boot the device 30% faster
- Worked with AMD's team to develop a platform for SONY's consumer product.
- Wrote OpenCL and OpenMP code to test the performance of AMD GPU
- Worked on integrating Linux kernel with AMD Radeon Open Compute (ROCm)
- Worked on resolving various Linux device driver issues.

Cisco Video Technologies Pvt Ltd (NDS),  
Bangalore

September 2013 — March 2016

*Software Engineer*

- Developed software for the middleware running on TV set-top boxes, principally using C / C++
- Worked along with Broadcom's team to debug critical device driver issues
- Participated in internal Cisco's hackathon and showcased the use of FUSE library in the Application layer instead of the Linux kernel layer and also to debug remotely

- Developed automation tool for the Software tester to trigger the test case remotely using Python Django framework and to remotely check the health of the devices under test.
- Spent 1 month on a customer site, leading the investigation into a complex and previously unsolvable defect. Instigated and led investigations into performance improvements

## CERTIFICATION

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NVIDIA DLI Certificate - Fundamentals of Deep Learning for Computer Vision

## EXTRA ACTIVITIES

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### **We4You:**

An active member of the TU Ilmenau We4You group, helping international students in various activities.

### **Stura:**

Was part of Stura, for helping newly admitted students in the initial week of joining.

### **BC Cafe:**

Was part of student cafe for interacting with people and practice speaking the German language