

# Samim Taray

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## EDUCATION

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### Saarland University

*Master of Science in Computer Science; GPA: 1.2/1.0*

Saarbrücken, Germany

*Oct. 2018 – Sep 2020*

### National Institute of Technology

*Bachelor of Technology in Information Technology; GPA 8.4/10.0*

Srinagar, India

*Sep. 2013 – Jun 2018*

## EXPERIENCE

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### Software Engineer

*K-Lens GmbH.*

Oct 2020 – Present

*Saarbrücken, Germany*

- Implementation of modules for stereo depth estimation in the existing C++ codebase.
- Design and integration of algorithms for image restoration and enhancement.
- Development of user applications in C++/Qt and Python for internal and alpha testing.
- Participated in code reviews and mentored one new employee.

*Master Thesis/Software Developer*

*Sep. 2019 – Sep 2020*

- Research and development of methods for image enhancement and restoration.
- Testing and validation of the method for images acquired in varied scenes and conditions.
- Optimization of algorithms in CUDA C++ for running time improvements.

### Master Practical Assignment

*Max Planck Institute for Software Systems*

Mar 2019 – May 2019

*Saarbrücken, Germany*

- Designed a prototype client-server system in C++ using *Boost Asynchronous IO* library for deep neural network execution.
- Designed experiments to validate efficient scheduling schemes for network execution requests.

### Project Intern

*International Center for Theoretical Sciences*

Jan 2017 – Mar 2017

*Bangalore, India*

- Setting up of job HTCondor job scheduling software for the compute cluster.
- Setting of resource monitoring and diagnostic tools for the compute cluster.

## PROJECTS

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### PintOS Course Project | *Operating Systems, C, Automated Testing, Software Design*

Oct 2019 – Feb 2020

- Implementation of multi-programming support and a virtual memory sub-system.
- File system with indexed and extensible files, directories and buffer caches.

### Distributed File Server Course Project | *Distributed Systems, C++, Git*

Oct 2018 – Jan 2018

- Multi-server file system using C++ as semester project for the Distributed Systems course.
- Distributed lock server, basic file operations and sharing.
- Fault tolerance with replication and implementation of Paxos algorithm for replica consistency.

### Other Projects

- Car design transfer using Generative Adversarial Networks ([url](#))
- What reveals your exact age in social networks ([url](#))

## TECHNICAL SKILLS

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**Languages:** C++, Python, C, CUDA, HTML/CSS, JavaScript, Java

**Frameworks:** PyTorch, Qt, Boost ASIO

**Developer Tools:** Git, CMake, Make, Python Setuptools, Docker, VS Code, PyCharm, IntelliJ, Eclipse

**Libraries:** OpenCV, Pybind11, Pandas, NumPy, Matplotlib