

Samim Taray

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EDUCATION

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

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 ([url](#)) /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 HTCondor job scheduling software for the compute cluster.
- Setting of resource monitoring and diagnostic tools for the compute cluster.

PROJECTS

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

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

LANGUAGES

English: C1 (TOEFL iBT:104)

German: A1

Urdu/Hindi: Native proficiency.

Kashmiri: Native proficiency.