Samim Taray

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Education

Saarland University — Saarbrücken, Germany
Master of Science in Computer Science; GPA: 1.2/1.0 — *Oct. 2018 – Sep 2020*

National Institute of Technology — Srinagar, India
Bachelor of Technology in Information Technology; GPA 8.4/10.0 — *Sep. 2013 – Jun 2018*

Experience

Software Engineer — Oct 2020 – Present
K-Lens GmbH. — *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 — Mar 2019 – May 2019
Max Planck Institute for Software Systems — *Saarbrücken, Germany*

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

Project Intern — Jan 2017 – Mar 2017
Indian Center for Theoretical Physics — *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

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