

KEEGAN PAUL COLACO

SOFTWARE ENGINEER, TOSHIBA SOFTWARE INDIA PVT. LTD. BANGALORE

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OVERVIEW

Software Engineer with over 2 years of experience in HDD firmware validation and performance analysis tools. Highly motivated to deepen my expertise in next-generation SSD technologies while delivering impactful, high-quality work that drives organizational success and supports personal growth.

WORK EXPERIENCE

TOSHIBA SOFTWARE INDIA PVT LTD - HDD Division

January 2023 - Present
Bengaluru, India

Software Engineer

- Developed and maintained stress-testing software for validating firmware features of SMR and Hybrid SMR SATA Hard Disk Drives.
- Contributed to the development of a GUI-based HDD debugging tool to improve HDD's firmware debugging efficiency.
- Studied and worked with performance benchmarking tools to analyze key HDD performance metrics.
- Developed scripts and tools for parsing, visualizing and analyzing HDD performance data.

TECHNICAL SKILLS

C/C++ • Python • SMR HDD Basics • GIT/SVN • Tools/Scripting • Windows • Linux • HTML/CSS

PROJECTS

HDD Stress Testing Tool Development

- Developed and maintained a Linux based stress testing tool using C language to validate SMR HDD firmware features by executing tests involving I/O and zone-operation workloads for long hours.
- The tool helps detect firmware issues, ensuring stable and robust firmware releases for customers.

HDD Snapshot Tool Development

- Developed features for a Windows-based GUI tool using C++ and the wxWidgets framework.
- Improved firmware debugging by enabling developers to easily analyze firmware data extracted from HDD dumps captured during failures.

HDD Performance Tool Development

- Studied performance benchmarking tools such as FIO, VDBench to evaluate various HDD performance metrics.
- Developed various CLI and web based tools for parsing, visualizing and analyzing HDD performance data.

EDUCATION

BTech - Computer Science Engineering • CGPA - 9.54

July 2019 - June 2023

SRM Institute of Science and Technology

Chennai, India

- Specialization in Software Engineering (Agile Methodology, Software Quality Assurance etc.)

Higher Secondary School (HSC) - Science • Percentage - 78.5%

2019

Loyola Higher Secondary School

Goa, India

High School (SSLC) • Percentage - 89%

2017

Loyola High School

Goa, India

ADDITIONAL INFORMATION

- **Certifications:** JLPT N5 Certified in Japanese language.
- **Cross Cultural Collaboration:** Strong communication and management skills attained by interacting frequently with counterparts seated in the USA.