Brahmajit Das

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Work Experience

SUSE Linux GmbH   **Remote**
Linux Developer L3 Support   **May 2023 — Present**

- Analyzing issues in various SUSE-supported products, while focusing on Linux Kernel
- Coordination of, and active involvement in, bug-fixing process, including backporting of Kernel CVE's
- Fixing bugs either on my own or in cooperation with subject matter experts
- Providing RCA with the lest turn around time for FY24

Google Summer of Code 2023   **Remote**
Student Developer at Gentoo Linux Foundation   **May 2023 — August 2023**

- Patching packages to ensure C99 compatibility (Modern C standard)
- Ensuring packages are C23 compatible
- Patching and testing packages against llvm profile of Gentoo
- Final work report

Google Summer of Code 2022   **Remote**
Student Developer at Gentoo Linux Foundation   **June 2022 — September 2022**

- Porting GNOME Desktop and related packages for Gentoo's musl profile
- Fix other musl related bugs
- Actively participate in release engineering and GRS project
- Final work report

Lifespark Technologies, IIT Bombay   **Remote**
Firmware Developer   **September 2021 — April 2023**

- Primary embedded developer of project WALK based on ESP32
- Implementation of inter-device communication using wireless protocols (WiFi, BLE, MQTT)
- Ensuring firmware security using Secure Boot and encrypted flash storage
- Architect testing for devices using unit testing and mock testing (MPU, Battery, and Storage).

Sironaaz Lab   **On site**
Embedded Systems Engineer, Intern   **May 2021 — September 2021**

- Porting existing system for different μ-processors
- Integration of decoupled web UI instance with hardware backend

Education

Gurudas College   **Kolkata, India**
B.Sc. with Honors in Computer Science with Maths and Statistics; CGPA: 7.5   **2018 — 2021**

Core Technical Skills

Programming Languages: C, C++, LaTeX, Python, Java
Tools & Technologies: Git, GitLab, Docker, LXD, GDB, debuginfod, LLVM toolchain, QEMU, FreeRTOS
Platforms: Linux, BSDs, RaspberryPi
Architectures: x86, ARM, ESP32, STM32

Open Source Contributions

Linux Kernel:

- git/torvalds/linux.git/commit/?id=5778ace04e6f07043f1564bc9b47b1098608cfdd
- git/torvalds/linux.git/commit/?id=a500f3751d3c861be7e4463c933cf467240cca5d
- git/torvalds/linux.git/commit/?id=e18655cf35a5958fbf4ae9ca3ebf28871a3a1801
- git/torvalds/linux.git/commit/?id=989e0cdc0f18a594b25cabc60426d29659aeaf58

Gentoo Linux: Neovim and LXD package maintainer, part of QA Team for GNOME Desktop environment. Provide other minor fixes from time to time. Link to all my contributions

Blender: Patching blender to build on musl libc. GitHub commits

MoarVM: After finding out that it was not being built with Clang 16, due to incompatible function pointer as Clang 16 enabled -Werror=implicit-function-declaration by default. See commit 871f7bc.