

Brahmajit Das

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Work Experience

• SUSE Linux

Junior Linux developer L3 support

Hybrid

June 2023 — Present

- Debug incidents reported by L2 and Premium engineers and perform root cause analysis
- Provide patches and fixes in timely manner and send patches upstream when possible
- Interact and keep-up with international team spread across various time-zones.

• Google Summer of Code 2023

Student Developer at Gentoo Linux Foundation

Remote

June 2023 — Present

- Port packages to C11 standard
- Making sure packages are C23 proof
- Patching and testing packages for libcx on llvm profile of Gentoo

• Google Summer of Code 2022

Student Developer at Gentoo Linux Foundation

Remote

June 2022 — August 2022

- Port GNOME Desktop for musl libc
- Fix other musl related bugs

• Lifespark Tech, IIT Bombay

Firmware Developer

Remote

September 2021 — May 2023

- Implementation of inter-device communication using wireless protocols (WiFi, BLE, MQTT)
- Ensuring firmware security using Secure Boot and encrypted flash storage
- Implementation of backend for remote debugging, deployment and OTA using AWS

• Sironaaz Lab

Embedded Systems Engineer, Intern

In person

May — September, 2021

- Ported existing system to different processor architecture.
- Refactor existing code and implement better communication protocol (SPI and I2C).
- Integrate web UI instance with hardware.

Education

• Gurudas College

B.Sc. with Honors – Computer Science; CGPA: 7.493

Kolkata, India

2018 – 2021

Courses: Operating Systems, Data Structures, Algorithms Design and Analysis, Databases, Networking, Machine Learning

Core Technical Skills

- **Programming Languages:** C, C++, L^AT_EX, Python, shell scripting
- **Tools:** Git, GitLab, Docker, GDB, debuginfod
- **Platforms:** Linux, BSDs, RaspberryPi

Open Source Contributions

- **Gentoo Linux:** Neovim package maintainer, part of QA Team for GNOME Desktop environment. Provide other minor fixes from time to time. [Link to all my contributions](#)
- **Blender:** Provide patches for build failure on musl libc. [GitHub commits](#)
- **Gitlab Shell:** Changed the default logging format to **JSON** from plain text, was part of the **14.1 release**. GitLab Shell handles git **SSH sessions for GitLab** and modifies the list of authorized keys. [Merge Request 467](#).

Achievements

- **HacktoberFest 2020:** Among 70,000 participants, awarded goodies and cash prize.
- **College Seminar:** First position in college seminar. Using Arduino and HC SR04 module, created a sonar with GUI feedback.