

# Brahmajit Das

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## Work Experience

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### • SUSE Linux

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 libcxx 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
- Took part in release engineering team with the GRS project

### • Lifespark Tech, IIT Bombay

Firmware Developer

Remote

September 2021 — May 2023

- Primary engineer working on the project WALK
- Implementation of inter-device and device to cloud 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

On site

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

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### • 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

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• **Programming Languages:** C, C++,  $\text{\LaTeX}$ , Python,

• **Tools:** Git, GitLab, Docker, GDB, debuginfod

• **Platforms:** Linux, BSDs, RaspberryPi

## Open Source Contributions

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• **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:** Patching blender to build 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

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• **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.