Suchinton Chakravarty

 Portfolio: suchinton.github.io
 Github: github.com/suchinton

@ Email: suchinton.2001@gmail.com
 Mobile: +91-735-8594-472
 Linkedin: suchinton-chakravarty

EXPERIENCE

- **Google Summer of Code '23** — Part-time, Remote
  Open Source Contributor at Automotive Grade Linux, The Linux Foundation — May 2023 - Nov 2023
  - **AGL Demo Control Panel**: Developed a Qt5 application to simulate CAN bus signals
  - Utilized the Kuksa-client SDK and CAN frame messages (via cannelloni) to communicate with kuksa-val-server & Databroker over ethernet/LAN and CAN bus interface.
  - Built AGL Images using Yocto tools, tested against in virtual machines and on target hardware
  - **Tech Stack**: Qt5, Python, Kuksa.val, Python-can, gRPC/WebSocket, AGL/Yocto, Docker, CAN-BUS adapter, Raspberry Pi 4, QEMU/VM, Gerret/Git, Jira
  - Source Code | Report

- **FOSSEE, IIT Bombay** — Part-time, Remote
  Software Development Intern at eSim — Feb 2023 - Jun 2023
  - **eSim: Flatpak Test App**: Developed a Flatpak-based demo application to install eSim tools and dependencies.
  - Ul improvements to eSim to show the progress of ongoing simulations.
  - Submitted an Appimage application to install verilator from source and implemented initial port of Qt5 to Qt6.
  - **Tech Stack**: PyQt5, Python, Git, eSim, Flatpak, Bash
  - Source Code | Report | Certificate

EDUCATION

- **Amity University Noida** — Uttar Pradesh, India
  Bachelor of Technology - Computer Science & Engineering: 82% — July 2020 - June 2024
- **The Schram Academy** — Chennai, India
  Higher Secondary(CBSE) — 2017 - 2019
- **DAV Boys Sr. Sec. School** — Chennai, India
  Secondary (CBSE) — 2015 - 2017

SKILLS

- **Languages**: Python, C++, SQL, Bash, JAVA, Dart
- **Frameworks & Libraries**: Qt5 & Gtk Frameworks, Flutter, Django, Flask, NodeJS, OpenCV
- **Tools**: GIT, Github, Gerrit, Jira, Docker, MySQL, PostgreSQL
- **Platforms**: Linux, Web, Windows, Raspberry pi, GCP, Oracle Cloud
- **Soft Skills**: Leadership, Event Management, Writing, Public Speaking, Time Management

PROJECTS

- **MusicID (Linux/macOS Application)**: Designed desktop application that uses audio fingerprinting to index and recognise music. It Maintains a local database of all fingerprints generated and Meta-data. Uses the Spotify API to provide recommendations. Accuracy is up to 92% for indexed audio in real-life conditions. View Project
- **BSPWM-setup**: Custom Window-manager & configurations to minimize system resource usage (as low as 350Mb at idle) to set up a desktop experience using various Unix/Linux tools. Includes bash/ python scripts to automate tasks and control IoT devices over the local network. View Project
- **FOSSEE-LPMS (eSim Package Management System)**: Packaged executable installer/Front-end for Verilator, Can be freely distributed for any Linux-based OS. View Project
- **WallC (Gnome 41+ tool)**: A GUI/Cli-based bash script for generating a .xml file to enable Light and Dark mode wallpapers in gnome 41+ Desktop. View Project

COURSE WORK

- Operating System
- Computer Networks
- Object Oriented Programming
- Database Management System

CERTIFICATES

- **Software Engineering Virtual Experience Prog.**: Goldman Sachs, Forage — Certificate
- **Joy of Computing with Python**: NPTL, IIT Madras — Certificate