Suman Datta

candidate@sumandatta.com ❖ +60 17 676 2520 ❖ Selangor, MY ❖ sumandatta.com

Ambitious 3rd-year Software Engineering student with a passion for low-level software (firmware, drivers) and a proven startup background. Seeking a 3-month internship to apply my technical skills and business acumen. Aspiring to lead impactful projects and contribute to critical open-source software and industry standards.

EDUCATION

Monash University   **Nov. 2025**
Bachelor of Software Engineering (Honours)   *Bandar Sunway, Selangor*

- Relevant Coursework: Data Structures and Algorithms, UI/UX, Operating Systems, Parallel Computing, Databases, Cybersecurity, Web Development, Electronics and Microcontrollers, Embedded Systems, CI/CD (DevOps)
- cGPA: 3.455

STARTUP EXPERIENCE

BridgeFarms   **Jan. 2021 – Nov. 2021**
Pre-seed, employee no. 7   *Wageningen, The Netherlands*

- The startup aimed to connect farmers, suppliers, intermediaries and consumers on a unified platform.
- Led all technical development as the sole technical employee.

ACTIVITIES AND LEADERSHIP

Monash University Startup Club   **Feb. 2023 – Nov. 2023**
Founding Member   *Bandar Sunway, Selangor*

- Connected with local founders, inviting them to speak at the club's events.
- Attracted over 100 students per event, initiating a vibrant entrepreneurial community on campus.

PERSONAL PROJECTS

DIY Home CCTV   **Aug. 2024**

- Utilized Hikvision PoE cameras with Frigate, an open-source NVR software.
- Enhanced security through advanced local object detection using Google Coral TPU acceleration.
- Deployed on a low-power mini-PC utilising the Proxmox Virtual Environment hypervisor.
- Managed Cat6 cabling, including punch-down blocks, field terminations, and connectors.

ACADEMIC PROJECTS

Jira-like Project Management Platform   **Sept. 2023**

- Developed and deployed a web-based project management platform written in Svelte.
- Deployment included sub-domaining, uptime maintenance using a watchdog and setting up a firewall.

Industrial Fluid Tank Control   **May. 2022**

- Designed an electronic circuit, including a microcontroller (Arduino UNO), various sensors and actuators.
- Incorporated a watchdog on a separate circuit, making use of a 555 timer.

ADDITIONAL INFORMATION

- **Technical Skills:** AVR/MIPS Assembly, C, CSS, Docker, Haskell, HTML, Java, JavaScript, PLC, Python, Ruby, SQL, Svelte, SvelteKit
- **Languages:** Fluent in English; Professional proficiency in Malay and Bengali.
- **Interests:** Construction, Cooking, EDA, Electronics, Instant Photography, Machining, Semiconductor Industry, Astronomy, PC Building