

Suman Datta

Availability: 16th Nov. 2024 – 23rd Feb. 2025

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EDUCATION

Monash University

November, 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)

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.
- Sole technical employee at the time of departure; responsible for all technical aspects of the application.

ACTIVITIES AND LEADERSHIP

Monash University Startup Club

Feb. 2024 – Nov. 2024

Founding Member

Bandar Sunway, Selangor

- Connected with local founders, inviting them to speak at the club's events.
- The club hosted events throughout the academic year, seeing attendance of over a hundred students for each.

ACADEMIC PROJECTS

Jira-like Project Management Platform

Sept. 2024

- 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.

Medical Image Data Processing Pipeline

Oct. 2023

- Lost image metadata was recovered using a statistical methodology against a known dataset.
- Written purely in C.

Industrial Fluid Tank Control

May. 2022

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

PERSONAL PROJECTS

DIY Home CCTV

Aug. 2024

- Utilized Hikvision PoE cameras with Frigate, an open-source NVR software.
- Enhanced 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.

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 Working Proficiency in Malay and Bengali.
- **Interests:** Construction, Cooking, EDA, Electronics, Instant Photography, Machining, Semiconductor Industry, Astronomy, PC Building