



Self Introduction

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Academic Background

- University of Bristol – Computer Science (2021, MSc)
 - Think Big Postgraduate Award (Scholarship) Recipient
- National Yang-Ming University – Genome Sciences (2017, MRes)
- National Chung Hsing University – Biotechnology (2015, BSc)

Professional Experience

- Application Engineer – Allxon (09/2023 – 10/2024)
 - Establish partnerships with [ngrok](#) and [portainer.io](#)
 - Advocate and support Allxon Octo SDK
 - Pre-sale demo and post-sale technical support for Allxon solutions
 - Prepare demo and training materials for members, customers, and partners
 - Research on Nvidia Jetson series technology (BSP update, OTA deploy, JPS)
- Software Engineer (C++) – SysJust (11/2021 – 08/2023)
- Bioinformatics Engineer – ACT Genomics (02/2019 – 09/2020)



Team Up with GitHub

Effective Teamworking and
Community Engagement on GitHub

Very Brief Introduction to GitHub

- More than just a repository for teams
 - Software project management
 - Workflow automation (build, deliver, and maintain = CI/CD)
- A social network built for all developers
 - Meet great developers and tech evangelists with your favorite projects
 - Contribute your efforts to make the community vibrant and thrive
- A knowledge base for every learner
 - Online documentation for projects
 - Learning materials shared by experienced users

Everything Starts from a Repository

- GitHub's services are centered around Repository functionalities
- Public Repository vs. Private Repository
- Best practices:
 - Add a README file (a description of the repository)
 - Add .gitignore (to exclude files that should not be stored in a repository)
 - Choose and review license (to clarify how others can use your work)

Setting Up Work - Issue, Label, and Milestone

- **Issue** is not always a problem; it can also represent tasks or ideas
 - Track the current status of work progress
 - Contribute ideas, feedback, and solutions
 - Report bugs
- Since an **Issue** is neutral, a **Label** can provide context
 - Makes it easier to categorize and search for **Issues**
 - e.g., bug, enhancement, question, help wanted
- Each **Issue** contributes to a larger **Milestone**
 - Represents significant moments in the project lifecycle
 - e.g., documentation complete, software module complete, test case complete

Managing Documentation with Wiki

- A collaborative knowledge management tool
 - Project management documents
 - User manuals
 - System architecture (diagrams)
 - Development guidelines for team members
- Permissions in a Wiki are aligned with Repository settings
- Regular updates are essential for team members and users to access the latest info.

Community Forum for Repository - Discussions

- Unlike Issues, content in Discussions doesn't need to be...
 - Tracked on a board
 - Linked to code
 - Closed
- Teams can post announcements, gather feedback, and make decisions
- Visitors and contributors can ask questions, provide answers, and mark solutions

Automated Workflows with GitHub Actions

- GitHub Actions = Runner + YAML Script
 - Runner: Virtual machines (with various OS options) running on GitHub cloud
 - YAML Script: Configuration file that defines your workflow
- Workflow triggers
 - Event (e.g., push, pull request)
 - Schedule
 - Repository dispatch (via GitHub RestAPI)
- Example: Automated Presentation Slide Generation

Let's see a demo on GitHub! 🙌