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 – Biotechnoloy (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 documnetation 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 .gitgnore (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! ✌️