

Richard Louie Orilla

Senior Software Engineer

Davao City | Orillarichard@pm.me
www.richardorilla.website



About Me

Dedicated problem solver and a researcher at heart. Kind of a person who likes to do challenging things for the sake of achievement.

Likes to explore what's new in tech, including dwelling on new programming languages. Favorite programming language is C and has already created real-time applications that is used for heavy-duty purposes using this language.

An avid fan of Linux yet explores other operating systems, including, BSD Family (Free, Open and Net), Haiku OS and even ICAROS (Amiga).

Educational Background

Masters of Science in Computer Science

[Incomplete]

De La Salle University (2017-2019)

Bachelor of Science in Computer Science

University of Mindanao (2010-2015)

Free and Opensource Software

Contributor (Recent Examples)

- **WINE (Wine Is Not an Emulator)**
 - Helped with bugfixes related to the portable executable port of ntdll.dll (as versus of in memory ntdll.dll) in order to make games like Street Fighter 5 work on Linux
- **Stratagus Engine - Wargus Branch**
 - Helped debug an issue related to regression in music player on version 3.3.1 basically making the game unplayable with music on
- **OpenRA - Red Alert 2 Branch**
 - Helped with several bugfixes with Red Alert 2 in OpenRA such as:
 - Incorrect speech notifications (when an enemy builds a super weapon)
 - Animation ticks fix (Some structures such as Allies Ore Refinery feel slower than the original)
 - Low powered animations (To be consistent with the original)
- **TediousJS (node-mssql)**
 - Implement feature that allows the library to support several Azure Active Directory connections
- **Mozilla Firefox**
 - Helped reported a bug related to manifest v3 addons not having proper access to tabs.captureVisibleTab and captureTab

Work Experience

- **Team Lead - Evaluate Analytics inRiver (March 2022 - Present)**
 - Design (with other leads and architects) and help in implementing several interconnected systems following

the microservices architecture

- Architectural Diagrams
- Class Diagrams
- Entity relationship Diagrams
- Common libraries to be shared across different systems/projects (internal and external)
- Assistance in implementation of CI/CD infrastructure
 - Creation of Dockerfiles
 - Creation of Helm charts
 - Creation of Azure Build Pipeline files
- Several of these systems include:
 - An API that bridges contexts from an App to Evaluate system
 - Programmable spider/web-crawler that uses Puppeteer as base and follows instructions in JSON and can do complicated tasks such as scraping text, interacting with websites, taking screenshots and also utilizes sophisticated techniques to bypass captcha
 - Ported a browser based plugin that can scrape data in a website, including taking browser screenshots from Chromium to Firefox

• *Team Lead - Analytics at DetailOnline (March 2018 - March 2022)*

- Design (usually alone) and help in implementing several interconnected systems following the microservices architecture
 - Architectural Diagrams
 - Class Diagrams
 - Entity relationship Diagrams
 - Common libraries to be shared across different systems/projects (internal and external)
 - Assistance in implementation of CI/CD infrastructure
 - Creation of Dockerfiles
 - Creation of Helm charts
 - Creation of Azure Build Pipeline files
 - Several of these systems include:
 - Semantic analysis system that can determine what product and brand is a scraped title belongs to powered by machine learning and very complex, business centric decision trees
 - System that determines the performance of a product or brand on a website base on several business specific KPIs
 - Chromium browser based plugin that can scrape data in a website, including taking browser screenshots

• *Lecturer and E-portal administrator at University of Mindanao (May 2015 - March 2019)*

- Helped maintained an E-portal project made by students and added several features into it such as:
 - Real time chat using polling + ajax + PHP
 - Forums
- Created a voting system used on several occasions in professional schools
- Helped in the decision making of switching away from student led E-portal project to Blackboard / BBLearn

Skillsets

Programming Languages

- | | | |
|--------|--------------|----------|
| • C | • Python | • ASP |
| • C++ | • Javascript | • PHP |
| • C# | • Ruby | • Golang |
| • Java | • Rust | • Kotlin |

Frameworks or Engine runtimes

- | | | |
|--------------------|--------------------|-----------------|
| • Qt Framework | • Android SDK | • Ruby on Rails |
| • Swing and JavaFX | • NodeJS + Express | • Flask |