Richard Louie Orilla
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Digital Shelf Analytics Team
Senior Software Engineer

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Social Media Profiles

- https://www.linkedin.com/in/richard-orilla/
- https://www.credly.com/users/richard-louie-orilla
- https://www.hackerrank.com/profile/hackerrank_clh7q

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 whats 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)

- ### DosboxStagingReplacerForGogGalaxy
  - Created this project to replace the running Dosbox bundled on classic GOG games on GOG Galaxy to other Dosbox variants (especially Dosbox staging)
  - Programmed this on modern C++ code because of the following:
    - Planned to make a lightweight CLI application with no unnecessary DLLs needed
    - Originally planned this on Rust but I instead use the former because I want to use the actual sqlite library code instead
    - I wanted to use modern coding features while also taking advantage of the original C sqlite code

- ### 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

Work Experience

- *Tech Lead - Analytics at inRiver (March 2018 - Present)*
  - Designed and contributed to the implementation of multiple interconnected systems using a microservices architecture.
  - Created and maintained architectural documentation:
    - System Architecture Diagrams
    - Class and ER (Entity Relationship) Diagrams
    - Shared internal and external libraries for code reuse
  - Contributed to DevOps and CI/CD infrastructure:
    - Authored Dockerfiles, Helm charts, and Azure DevOps pipeline definitions
  - Led or participated in the development of several critical systems:
    - A semantic analysis engine using machine learning and rule-based logic to classify scraped product titles by brand and product identity
    - A performance evaluation system that assesses product or brand success on e-commerce platforms using domain-specific KPIs
    - Browser extensions for website scraping and screenshot capture
  - Conducted R&D on advanced technologies to assess feasibility and integration potential:
    - Integrated LLMs into analytics workflows
    - Developed neural networks for classification tasks enhancing product functionality
    - Explored computer vision solutions using Darknet (YOLO)
  - Delivered proof-of-concept implementations and evaluated cost-effectiveness for potential productization
  - Provided strategic input to upper management on cost projections and pricing adjustments based on AI system integration
  - Contributed to production deployment of experimental and R&D-driven technologies

Skillsets

Programming Languages

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

Frameworks or Engine runtimes

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

Certifications

- Python Essentials 2 - Cisco
- Problem Solving Intermediate - Hackerrank
- Javascript Intermediate - Hackerrank
- HTML5 Application Development Fundamentals - Microsoft