Tolentino Abner Jr Morales

Software Engineer · Computer Engineer · Designer

abner.tolentino@u.nus.edu | Singapore | +65 84680443 | https://abnermtj.github.io/

Education

National University of Singapore   *Aug 2019 - Expected July 2023*

B.E Computer Engineering

- **CAP:** 4.79/5.00 · Dean's List
- **Modules:** SE & OOP · DSA · OS · Networks · AI · Game Dev · Graphics
- **Others:** Carnival Jam 2021 · Execute Hackathon 2020 · NUS Comics and Animation Society

Skills

Languages	C/C++ · C# · Java · Python · HTML/CSS/JS · Verilog
Technologies	Unity · Godot · UWP · Arduino · Git · Unix · Docker
Tools	Vim · Figma · Photoshop

Experience

Hewlett Packard Enterprise   *Jan 2022 - Jun 2022*

Software Firmware Engineer Intern

- Developed tests for software modules and functional circuits in Network Switches in C and Python

Microtube Technologies   *Oct 2021 - Nov 2021*

Software Engineer Intern

- Led an initiative to create a data visualizer for Bluetooth sensors using UWP and Unity
- Designed the UI/UX and completely implemented it in software, was later launched with their sensor kits

National University of Singapore   *2021 - Aug 2021*

Technical Project Manager

- Mentored 5 teams in managing their Software Engineering projects for NUS Soc Orbital 2021
- Collaborated with mentees to evaluate project timelines and set reasonable milestones

Projects

Dance Move Detector   *Aug 2021 – Nov 2021*

Python/C++ Developer

- Developed a wearable dance move detector that uses neural networks
- Designed and implemented the Bluetooth protocol between IoT devices with Python on Ubuntu
- Implemented the reading and processing of IMU and EMG data on Arduinos in C/C++

Self-Checkout App   *Feb 2021 - April 2021*

UX Designer

- Designed a checkout app to reduce queue times at local supermarkets in Balsamiq and Figma
- Conducted design research like usability tests and contextual interviews with shoppers
- Awarded Huawei Future Interaction Design Award 2nd Place

RPG Adventure Game   *May 2020 - Aug 2020*

Game Developer

- Designed and implemented gameplay, physics, and software architecture on Godot in GdScript
- Clinched Top 6 of 383 projects in NUS SoC's Orbital 2020 for good software engineering