



Linktree

Summary of Qualifications

- More than 3 years experience in Python programming.
- Developed a desktop application using Python using the object-oriented paradigm
- Good understanding of Agile Methodologies (specifically Scrum)
- Experienced in developing software projects using Visual Studio Code, Git, Conda.
- Over 4 years background in heading organization committees, working with people and interacting with partners/sponsors

Programming Languages

Python
C
HTML, CSS
SQL
Verilog
MIPS Assembly
MATLAB

Software Development

Visual Studio Code
Git
Github
Conda Environments
LaTeX for Documentation

Professional Memberships

UP Digital Signal Processing Laboratory
(Affiliate)

UP Microelectronics and Microprocessors Laboratory
(Affiliate)

CHRISTIAN JAMES E. BARIMBAO "CJ"

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Quezon City

EDUCATION

Bachelor of Science—**Computer Engineering**
University of the Philippines Diliman, Quezon City

Aug 2015-July 2023

COURSE PROJECTS

Virtual Kulintang Instrument Synthesis using Computer Vision (Undergraduate Thesis)

- Developed a desktop virtual application of the Kulintang instrument using Python object-oriented programming and OpenCV.
- Presented in the 41st Samahang Pisika ng Pilipinas (SPP) 2023 Conference Proceedings
 - won **Best Poster Presentation** award in the Mathematical Physics, Optics, and Interdisciplinary Topics Category
 - Link to Paper: <https://proceedings.spp-online.org/article/view/SPP-2023-PC-21>
 - Video demo: <https://drive.google.com/file/d/1nSBSIW9XAp9mwdec6l36jEwV2cvuNsjg/view>
- **UPEEEAAI Medal for Best Undergraduate Project 2023**
- Managed in a GitHub repository
 - <https://github.com/cjbarimbao/virtualkulintang>

RELEVANT COURSEWORK

CoE 134 - Computer Systems Engineering

- Requirements analysis and elicitation. Architectural design. Implementation, testing and maintenance issues. Project Management, Software Development Life Cycle.

CoE 197 - Advanced Software Concepts

- Agile Concepts, Scrum, Software Versioning using Git, Object-oriented programming.

EEE 13 - Programming Applications

- Advanced C Programming, data structures. Introduction to front-end and back-end web development using HTML/CSS, Common Gateway Interface (CGI) Programming, and SQL.

CoE 151 - Computer Networks

- Computer Networks concepts from the Application layer to Physical Layer. Network security. Developed a socket networking application in Python. Setting up an Apache web server.

CoE 135 - Operating Systems

- Installation of ArchLinux and Debian-Based virtual machines
- Linux System calls. Process management. Threads. Scheduler. Interprocess communication and synchronization. Deadlock and starvation. Memory management. Virtual memory. I/O systems. File system.

INTERNSHIP

Video and Image Processing Laboratory

National Institute of Physics, UP Diliman (July - August 2023)

- Learning web development using Django. Computer hardware and software troubleshooting. 3D-modelling using Onshape. Kite Aerial Photography and learning QGIS.

OTHER ACTIVITIES

Vice President for Membership

UP Babaylan

- Headed the committee that manages the recruitment process of an organization that advocates for gender equality
- Assisted the educational training of incoming members

2018-2019

Secretariat Member

Student Leadership and Collaboration Program

Office of Senator Risa Hontiveros

- Facilitated the SOGIE equality workshop for a student leadership training

2018

Member Relations Director

UP Circuit - Academic Organization

- Organized team building events for the members

2017