

Piolo Pascual E. Besinga

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PROFILE

A fresh Computer Engineering graduate of the University of San Carlos. Developed functional web applications leveraging HTML, CSS, and React. Completed a senior thesis focused on microplastic classification, utilizing Python. Demonstrated ability to effectively collaborate in teams while delivering high-quality results.

RELEVANT PROJECTS

06/2025 – Present	Automated Imaging System for Microplastics Sample Classification using Convolutional Neural Network A microplastic imaging system utilizing Convolutional Neural Network (CNN) models developed in PyTorch, OpenCV for computer vision, an automated XY platform, and integrated a localized, automated retraining feature. It reduced the unit size by 42%, cutting cost from ₱14,500 to ₱8,934, achieving an 11.71% detection speedup with 1.5 GB memory savings, and building a local retraining pipeline that improved model generalization by 3.6% AP on unseen data.
06/2025 – 07/2025	Mama's Recipe A mobile-based recipe book 📱 that lets the users curate and manage personal recipes. Developed using Flutter framework and Dart language, and Firebase for data storage.
04/2025 – 05/2025	Course Management System Developed a web-based Course Management System 🌐 using Next.js and Laravel, enabling academic faculty to efficiently oversee handled and enrolled courses through a responsive, secure interface.
04/2024 – 05/2024	Jerango Warehouse Manager A stand-alone application made utilizing React.js for the frontend, Node.js for the backend, and Firebase for data storage and management. It controls and optimizes every aspect of daily warehouse operations. It tracks the inventory and notify stock levels, and generates reports and analytics
04/2023 – 05/2023	Vending Machine System A simulated vending machine developed using Java, displaying available stocks in the vending machine, accepts and validates payment, displays the current stocks and calculates exact change.

EDUCATION

2022 – Present	University of San Carlos <i>Bachelor of Science in Computer Engineering</i> GWA : 1.60
2020 – 2021	Central Visayan Institute Foundation <i>Information and Communications Technology (Senior High School)</i> With High Honors

LANGUAGES & TECHNOLOGIES

Mobile Development

- Flutter, Dart

Database and Storage

MySQL, Firebase, SQLite

Machine Learning and Computer Vision

Python, PyTorch, OpenCV, Pandas, Sci-kit, Detectron2, SQL

Web Development

- **Frontend:** HTML, CSS, JavaScript, TypeScript, React.js, Next.js, TailwindCSS
- **Backend:** Laravel, Node.js

Other Technologies

- **Languages:** Java, C, 8086 Assembly
- **UI/UX:** Figma

ORGANIZATIONS

2025 – Present	Computer Driven Enthusiasts (CoDE) of the University of San Carlos <i>Public Relations Officer</i>
2024 – 2025	Computer Engineering Council (CpEC) of the University of San Carlos <i>Councilor</i>
2022 – Present	DOST sa USC <i>Member</i>

AWARDS

Latin Honors (Cum Laude) — 2026
University of San Carlos

DOST Scholarship - 2022
Department of Science and Technology

Robotics Competition (Line Following Robot) - 2nd Placer
USC Robotics Conference (RoboCon)

PROFESSIONAL EXPERIENCE

Melbourne, Australia **Mobile Developer Intern**
Focus Bear Pty Ltd

Tech Stack: React Native, TypeScript, Redux, JavaScript, Firebase, PostHog

- Developed and optimized core features for the Focus Bear productivity app using React Native, focusing on enhancing user experience and app stability.
- Identified and resolved critical bugs and performance bottlenecks, improving overall application reliability across various Android devices.
- Modernized application interfaces by implementing contemporary UI elements and optimizing layout accessibility.
- Conducted rigorous testing of new features to ensure seamless integration with existing codebase and backend services.
- Managed version control using Git/GitHub, following professional branching workflows to maintain a clean and collaborative development environment.

REFERENCES

Dr. Luis Gerardo S. Cañete Jr., *PCB/CRA Laboratory Head, University of San Carlos*
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Paul John Toral, *Project Coordinator, AvePoint USA LLC*
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Jezza Mae Ebarle, *Software Engineering - Associate Manager, Accenture, Inc.*
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