

Kyle D. Tiongson

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PROFESSIONAL SUMMARY

Computer Science student with hands-on experience in web development, UI/UX design, and machine learning. Skilled in building responsive websites using WordPress, Figma, and JavaScript frameworks. Eager to contribute technical and creative skills to real-world projects.

EDUCATION

University of Cabuyao – PnC,
Bachelor of Science in Computer Science

2021 - Present
Expected June 2025

- Coursework: Data Structures and Algorithms, Information Management, Algorithms and Complexity, Information Assurance Security, Software Engineering

PROJECTS

Eye Check Android Application (React Native, Expo, Random Forest, YOLOv8)

- Built an Android eye check app with React Native and Expo, using YOLOv8 for real-time eye feature detection via camera input.
- Applied a Random Forest model to classify YOLOv8 outputs, combining computer vision and ML for an intelligent on-device screening tool.

Eye Precision Test Web Application (React.js)

- Built a React web app to assess eye-hand coordination and visual precision using interactive visual targets and real-time response tracking.
- Implemented state management and timing logic to measure metrics like reaction time and accuracy, with a responsive, accessible UI.

Personal Portfolio (Javascript, CSS, HTML)

EXPERIENCE

Creative Bananas

Web Designer / Web Developer
February 2025 – March 2025

- Designed UI/UX layouts in Figma and translated them into responsive WordPress websites.
- Customized themes and plugins using Elementor and other tools.
- Updated content, optimized performance, and applied basic SEO practices.

TECHNICAL SKILL/TOOL

Programming Languages: Java, Javascript, React Native, Python, C#

Database Management: MySQL, Supabase

Development Tools: VS Code, Android Studio, Eclipse IDE, Unity, Sublime Text, Figma

RESEARCH EXPERIENCE

EyeCheck: A Machine Learning-Based Application for VA Assessment

University of Cabuyao 2024 – Present

Research Member

- Implemented Random Forest and YOLOv8 models for visual acuity assessment
- Contributed to frontend development of the application
- Assisted in research on visual acuity methods, and helped identify key metrics for ML integration