Kyle D. Tiongson
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EDUCATION

University of Cabuyao – PnC, 2021 - Present
Bachelor of Science in Computer Science 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)

- Developed a mobile application using React Native and Expo Go for front-end development.
- Integrated YOLOv8 for real-time object detection, enabling the app to identify eye-related features or conditions from camera input.
- Used a Random Forest machine learning model to analyze data from YOLOv8 detections for classification and decision-making tasks.
- Combined computer vision and traditional ML to create an interactive and intelligent eye check solution on Android devices.

Eye Precision Test Web Application (React.js*)*

- Designed and developed a web-based application using React to assess users' eye-hand coordination and visual precision.
- Implemented interactive visual targets and dynamic response tracking to measure user accuracy in real time.
- Utilized state management and timing functions to evaluate performance metrics such as reaction time, precision, and consistency.
- Created an intuitive UI with responsive design to ensure accessibility across devices and screen sizes.

Personal Portfolio (Javascript, CSS, HTML)

- github
- link

CERTIFICATIONS

AI For Beginners *certificate*
hpLife Foundation April 2024

Getting Started with DevOps on AWS *certificate*
AWS Training and Certification April 2024

HTML Essentials *certificate*
CISCO networking academy March 2024

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, including the tumbling E test, and helped identify key metrics for ML integration

CHARACTER REFERENCES

FE L. HABLANIDA
Professor – University of Cabuyao
Mobile: 0966-911-3772

I hereby attest that all data written above are true to the best of my ability.

KYLE D. TIONGSON
Applicant