

JHONIEX MENDROS GAMAYON

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Career Objective

Master of Information Technology and current WebAlive intern with hands-on experience building and deploying React, Next.js, Node.js and SQL Server applications. Developed production SaaS and game-platform systems covering multi-tenancy, authentication, APIs, monitoring and Linux deployment. Additional experience in Python machine learning, including computer vision and neural-network model evaluation.

Technical Knowledge

AI & Machine Learning	Python, TensorFlow, Keras, scikit-learn, NumPy, Pandas, Matplotlib, Google Colab; CNN, VGG16, LSTM, YOLOv11-n, DETR-ResNet50, transfer learning, data augmentation, PCA, Gaussian Mixture Models, early stopping and hyperparameter experiments.
Model Evaluation	Train/validation/test design, accuracy and loss analysis, precision, recall, mAP@0.5, mAP@0.5:0.95, RMSE, R ² , classification reports, confidence analysis and model trade-off evaluation.
AI Applications	ChatGPT, Codex, Claude Code, OpenAI API, controlled LLM chat and agent workflows, prompt and queue design, database-backed processing, rate/cooldown controls, misuse prevention, cost awareness and responsible AI principles.
Full-Stack	React, Next.js, TypeScript, JavaScript, HTML5, CSS3, Node.js, Express.js, REST APIs, middleware, webhooks, responsive UI and Lighthouse optimization.
Data & Security	Microsoft SQL Server, T-SQL, relational design, OAuth2, OIDC, JWT, RBAC, HMAC-signed state, refresh-token rotation, TLS and secure multi-tenant architecture.
DevOps & Delivery	Ubuntu Linux, Windows Server, Nginx, PM2, Cloudflare, Git/GitHub, Jira, Confluence, VPS deployment, application logging, functional/regression testing and UAT support.

Education and Certificates

Master of Information Technology CQUniversity, Melbourne, Australia Major: Networks and Information Security Minor: Artificial Intelligence	Expected November 2026
Graduate Diploma in Information Technology CQUniversity, Melbourne, Australia	Completed
Graduate Certificate in Information Technology CQUniversity, Melbourne, Australia	Completed
Google Cybersecurity Professional Certificate	Completed

Employment History

IT Support Intern <i>WebAlive Melbourne, Australia</i>	Jul 2026 - Present
- Support client websites and web applications by reproducing issues, reviewing requirements, testing changes and documenting implementation work in Jira and Confluence. - Migrated a legacy multi-page HTML/CSS website to Next.js static delivery, implemented stakeholder feedback and achieved Lighthouse scores of 100 across Performance, Accessibility, Best Practices and SEO. - Audit client and third-party websites for broken booking/contact flows, inconsistent business information, thin content, SEO, accessibility and usability gaps, then translate findings into actionable development tasks. - Collaborate with developers and stakeholders through Git-based workflows, code review, implementation, quality checks and technical handover documentation.	

Founder & Software Developer — Independent SaaS Projects

Mar 2020 - Present

Freelance / Personal Platforms | Remote

- Develop and operate React, Node.js/Express, C++ and SQL Server systems for SaaS and RAN Online platforms, covering APIs, authentication, database changes, deployments, server administration and user support.
- Modernize a legacy Win32/DirectX 9 game codebase toward x64/DirectX 11, completing x64 migration work across 12 game-linked dependencies and 7 of 8 major migration components.
- Implemented packet validation, event logging, queue-backed processing, access controls and network monitoring to investigate malformed traffic and improve incident diagnostics.
- Built runtime performance tooling, including an FPS overlay and CPU frame profiler, and used a 1,000-mob stress test to identify effects-related bottlenecks.
- Maintain architecture, security, deployment and troubleshooting documentation to support repeatable releases across Windows and Linux environments.

Selected Engineering Projects

Github Portfolio Link: <https://github.com/jhoniex12>

EntraBook – Multi-Tenant Booking SaaS | *React, Node.js, Express, SQL Server, Linux, Nginx, PM2, Cloudflare* | entrabook.com

- Built and deployed a multi-tenant booking SaaS supporting court sessions, classes and property rentals, with organisation-scoped data access, role-based administration and subdomain-based tenant routing.
- Built REST APIs and relational data models for booking, payment, webhook and email workflows; designed OAuth2/OIDC/JWT sessions using HMAC-protected state, host-only cookies and refresh-token rotation.

EntraSave - Personal Finance Platform | *React, Node.js, Express, SQL Server* | entrasave.com

- Developed a personal-finance application with transaction management, reporting dashboards and secure OAuth-based sign-in.
- Designed relational schemas and backend APIs with emphasis on authentication, data integrity, maintainability and production troubleshooting.

BabyRan Website & AI Support Platform | *React, Node.js, Express, SQL Server, JWT, OpenAI API* | babyraninternational.com

- Developed secure administration, monitoring, email-verification and server-management workflows for an online game platform, with event logging and controlled AI-assisted support features.

Selected Machine Learning & AI Projects

Machine Learning Portfolio Link: <https://github.com/jhoniex12/MachineLearning-Portfolio>

Mango Object Detection: YOLOv11-n vs DETR | *Python, YOLO, DETR-ResNet50, COCO/YOLO annotations, Google Colab*

- Fine-tuned CNN-based YOLOv11-n and transformer-based DETR for single-class mango detection using 1,730 orchard images split into 1,384 training, 260 validation and 86 test images.
- Evaluated both model using precision, recall and mAP: YOLO achieved 0.956 precision, 0.955 recall, 0.971 mAP@0.5 and 0.693 mAP@0.5:0.95; DETR achieved 0.957, 0.664, 0.957 and 0.584 respectively.
- Compared speed, localization quality, computational demand and deployment suitability, concluding YOLO was the stronger real-time option for orchard monitoring.

Age & Gender Prediction: Simple CNN vs VGG16 | *Python, TensorFlow/Keras, UTKFace, data augmentation, transfer learning*

- Prepared and validated labels from more than 20,000 face images, built multi-output Simple CNN and VGG16 models, and tested image resolution, augmentation, learning rate and early stopping configurations.
- Best Simple CNN achieved 75.79% age-category accuracy, 89.94% gender accuracy and 0.823 total loss, outperforming the tested VGG16 configuration and demonstrating evidence-based model selection.

LSTM Forecasting & Neural Network Classification | *Python, TensorFlow/Keras, scikit-learn, Pandas, PCA, GMM*

- Built LSTM models to forecast BHP, CBA and WES stock prices, varied neuron counts and training epochs, and compared prediction behavior using graphs, RMSE and R².
- Developed an olive-oil classifier using feature preprocessing, scaling, PCA and Gaussian Mixture Model synthesis for minority-class balancing; compared Adam and SGD using accuracy and classification reports.

References

Available upon request.