

JOHN CHARLIE CATEDRILLA

Machine Learning Engineer / Full Stack Developer

catedrillajohncharlie@gmail.com · 0906 555 3358 · github.com/razyrick · jcharlie.dev

PROFILE

Machine learning engineer and full-stack developer with hands-on experience spanning computer vision research, production SaaS, AI automation, data pipelines, and self-hosted infrastructure. Works across model development, product engineering, data systems, and DevOps, turning prototypes and operational requirements into maintainable production software.

EXPERIENCE

SageDynamics — Machine Learning Engineer / Full Stack Developer

February 2025–Present

- Build AI-powered products and full-stack applications, translating business workflows into practical software used by internal and external teams.
- Develop document-processing and data pipelines for extraction, anonymization, normalization, validation, and publication of structured information.
- Build multi-role TypeScript platforms covering persistent workflows, real-time support, versioned content, and audit-ready records.
- Automate repetitive operational steps while retaining human review, provenance, version control, and privacy safeguards.
- Manage containerized deployments and CI/CD, including blue-green releases, migrations, monitoring, backups, and rollback procedures.
- Started as a Software Developer Intern and transitioned into the full-time Machine Learning Engineer role after contributing to application components, automation scripts, backend integrations, and production workflows.

Vantis PH — Full Stack Web Developer

December 2025–Present

- Own end-to-end development of the public website and internal admin systems for bookings, payments, subscriptions, KYC files, quotations, referrals, email, and content.
- Design and maintain backend services, database structures, authentication, payment flows, caching, analytics, and operational integrations.
- Deliver responsive customer-facing features and internal tools using a modern TypeScript/React stack with reliable data and storage integrations.
- Improve reliability through type checking, linting, automated tests, security updates, database migrations, performance audits, and staged deployments.

EDUCATION

Bachelor of Science in Computer Science

Best Thesis Award

Graduate

Coconut Detection and Maturity Estimation. Built a computer vision pipeline using Mask R-CNN for coconut detection and modified VGG16/CNN architectures with Boruta feature selection for maturity classification. Developed the prototype, dataset preprocessing workflow, training experiments, and reusable model artifacts. [Public repository](#).

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL, HTML, CSS

Machine learning and data: PyTorch, TensorFlow, Keras, scikit-learn, OpenCV, Jupyter, NumPy, pandas, computer vision, Mask R-CNN, CNNs, VGG16, model training and evaluation, feature selection, OCR, LLM workflows, PostgreSQL, PostGIS

Full stack: Next.js, Node.js, React, Tailwind CSS, Prisma, Drizzle ORM, Better Auth, REST APIs, Redis

DevOps and quality: Docker, Docker Compose, Coolify, GitHub Actions, GHCR, Vercel, Traefik, Cloudflare, Linux, Vitest, Playwright, pytest