

REYNO BENEDICT

Computer Science Undergraduate | Software Engineering, Machine Learning & MLOps

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EDUCATION

Universitas Brawijaya

Bachelor of Computer Science | GPA: 3.62/4.00 | Expected graduation: Jan 2027

Malang, Indonesia

Aug 2023 – Present

EXPERIENCE

Software Development Intern (Field Internship / PKL)

Aug 2026 – Sep 2026

BPS-Statistics Indonesia, Malang City (BPS Kota Malang)

Malang, Indonesia

- Designed the architecture and guided implementation of an in-development web application that matches business records across statistical datasets for human verification, in a team of three.
- Built the Next.js frontend and TypeScript REST API with PostgreSQL and Drizzle ORM, covering CSV upload and validation, asynchronous matching jobs via a FastAPI service, task assignment, verification, dashboards, and CSV export.
- Implemented role-based access control for three user roles with HMAC-signed httpOnly session cookies, bcrypt password hashing, account approval, and audit logging.
- Containerized the stack with Docker Compose, versioned schema migrations, wrote integration tests for assignment and verification workflows, and kept restricted data out of the repository using synthetic fixtures.

PROJECTS

ICP Intelligence – Indonesian Crude Price Forecasting Platform | [GitHub](#)

Apr 2026 – Oct 2026

Python, FastAPI, scikit-learn, MLflow, pandas, React, TypeScript, Cloudflare Workers, Docker, GitHub Actions

- Built a forecasting web app combining official ICP with Brent, Dubai, and WTI benchmarks and USD/IDR rates, using a FastAPI backend, React/TypeScript frontend, and Cloudflare Workers gateway, deployed to public staging.
- Rebuilt a verified official ICP series (2019–2026, 93 months, no gaps) by parsing government decrees with PyMuPDF and Tesseract OCR and cross-checking sources, correcting 4 values and filling 14 missing months.
- Benchmarked 5 forecasting methods with a rolling-origin backtest (69 origins, 1–6 month horizons); the selected model reached a 1-month MAE of 0.85 USD/bbl vs. 6.09 for a persistence baseline when benchmark prices are known.
- Managed experiment tracking, model registry, and promotion gates with MLflow; enforced quality with CI (ruff, mypy, ESLint, OpenAPI contract checks) and 143 automated tests (pytest, Vitest).

Indonesian Job Market Analysis | [GitHub](#)

Jun 2026

Python, Selenium, BeautifulSoup, Apache Spark (Spark SQL, MLlib), pandas, Matplotlib

- Scraped 1,133 job postings from Glints Indonesia with Selenium and BeautifulSoup; cleaned the data and engineered location and salary features with pandas.
- Analyzed hiring patterns with Spark SQL (top roles, companies, cities, job types, salary ranges) and clustered postings by job title with Spark MLlib K-Means, selecting k from 3–6 by silhouette score and minimum cluster size.

TinyImageNet-100 Classification with ConvNeXt | [GitHub](#)

Dec 2025

Python, PyTorch, torchvision, Hugging Face Datasets, scikit-learn

- Implemented a training and evaluation pipeline comparing a frozen pretrained ConvNeXt-Tiny baseline with a variant adding a multi-head cross-attention module on a 100-class TinyImageNet subset.
- Applied data augmentation, dropout, weight decay, label smoothing, gradient clipping, and early stopping, and compared models with accuracy curves and confusion matrices.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL, Java

Machine Learning & Data: scikit-learn, PyTorch, pandas, NumPy, Apache Spark (Spark SQL, MLlib), OpenCV, MLflow

Backend & Web: FastAPI, Next.js, React, REST APIs, PostgreSQL, Drizzle ORM

DevOps & Tools: Docker, Docker Compose, Git, GitHub Actions, Cloudflare Workers, Prometheus, Grafana

LEADERSHIP

Chief Executive (Head of Committee) | INTRIVIA 2025 New-Student Orientation

Mar 2025 – Dec 2025

- Led concept, planning, cross-division coordination, and execution of the orientation program with 121 committee members for 437 new students.
- Achieved a program completion rate above 95% and met every KPI defined in the event proposal.

Vice Head, Student Resource Development | HMDTIF (Informatics Student Association), UB

Jan 2025 – Dec 2025

- Supervised 4 staff members in the Humanities sub-division and designed and managed 4 programs, meeting 100% of their quantitative and qualitative success indicators.

HONORS & AWARDS

4th Place, PKM-K (Entrepreneurship) | Startup Academy 2023, Faculty of Computer Science, UB

2023