

KRISTOPHER NATHANAEL

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JAKARTA, INDONESIA

EDUCATION

Bina Nusantara University | *GPA: 3.98 of 4.00* 2024 - 2028 (Expected)
Bachelor of Science (S.Kom) | *Computer Science*
Focus | *Software Engineering*

EXPERIENCE

Freelance Full-Stack Developer | *Client Projects* 2022 - 2025

- Built client-facing web applications and responsive sites with **Next.js**, **React**, and **TypeScript**.
- Developed a CRM API, website, and embeddable widget for a shared customer-management platform.
- Built a client admin dashboard with centralized data visualizations and backend APIs.

PUBLICATIONS

First Author | *Distilling Encoder-Decoder and Decoder-Only Models into BERT for NLP Tasks* 2026

- Accepted and presented at ICISS 2026.
- Studied knowledge distillation from **BART**, **T5**, and **GPT-2** into **BERT** across three NLP benchmarks.
- Found distilled **BERT** models largely matched baseline accuracy while reducing teacher inference costs.

PROJECTS

Systems Software Developer | *app-nap* / *Linux Power-Saving Daemon* 2026 - Present

- Built a **Rust** daemon that throttles and freezes inactive applications using D-Bus and **systemd** cgroups.
- Added media- and idle-aware controls with configurable CPU quotas and safe state restoration.

Lead Backend Engineer & Team Lead | *Koinku* / *Expense Tracker* 2025 - Present

- Built a receipt-to-expense API in **TypeScript** and **Express** with domain-driven **Jest** tests.
- Led six junior developers through onboarding and code reviews across the **React** frontend and API.
- Managed **Docker** deployment and **GitHub Actions** build-and-push workflows.

Full-Stack Developer | *Sunibshare* / *Student Resource Sharing* 2026

- Built a **React** web app and **Hono** API for sharing and finding course materials.
- Integrated **PostgreSQL**, **OAuth/JWT** auth, **S3**-compatible storage, and **Docker Compose**.

Mobile & Backend Developer | *LinguaScreen* / *Language-Learning App* 2025 - 2026

- Built a cross-platform **Flutter** app that uses **OCR** and translation to explain on-screen text.
- Developed a **Python** API, then re-architected it in **Go** with **Docker**-ized services and **OpenAPI** docs.

Full-Stack Developer | *Offline-First Todo PWA* 2025

- Built a **React** PWA with offline storage and a **TypeScript** API for cross-device synchronization.
- Designed end-to-end encrypted sync with short-lived ciphertext on a **Redis**-backed server.

SKILLS

Programming Languages: TypeScript | JavaScript | Python | Java | SQL | Go | Rust

Frameworks & Runtime: Next.js | React.js | Node.js | Express.js | Flutter | NestJS | Hono | Deno

Databases & Tools: PostgreSQL | Docker | Git | GitHub Actions | Redis