

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 an **Astro**, **Express**, and **MySQL** registration system used at Pertamina Gas Customer Day, with RSVP forms, attendee tracking, and admin exports.
- Built client-facing web applications and responsive sites with **Next.js**, **React**, and **TypeScript**.

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

app-nap | *Linux Power-Saving Daemon* 2026

- 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.

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**.

LinguaScreen | *Language-Learning App* 2025 - 2026

- Placed as a semifinalist at the **elevAItE x Microsoft** Hackathon (Hub BINUS University, 2025).
- Built a cross-platform **Flutter** app that uses **OCR** and translation to explain on-screen text.
- Developed a **Python** API, then rebuilt it in **Go** with **Docker** containers and **OpenAPI** docs.

Koinku | *Expense Tracker* 2025

- Built a receipt-to-expense API in **TypeScript** and **Express** with **Jest** route tests.
- Mentored six peers in **TypeScript**, **React**, and **Docker** through onboarding and code reviews.
- Managed **Docker** deployment and **GitHub Actions** build-and-push workflows.

Doto | *End-to-End Encrypted Multi-Device Sync* 2025

- Built a **React** task app with offline storage and a custom protocol for cross-device sync.
- Built client-side encrypted sync with **Hono** and **Redis**; the server kept only short-lived ciphertext.

SKILLS

Programming Languages: TypeScript | JavaScript | HTML/CSS | Python | Java | SQL | Rust | Go
Frameworks & Runtime: Next.js | React.js | Node.js | Express.js | Flutter | NestJS | Hono | Deno | Astro
Databases & Tools: PostgreSQL | MySQL | Docker | Git | GitHub Actions | Redis | Jest