

CEVIN SAMUEL

Software Engineer (with 1+ years of experience)
Pekanbaru, Riau, Indonesia (willing to relocate)

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EDUCATION

Informatics, Bachelor of Engineering (CGPA: 3.34/4)

Universitas Riau

8/2020 – 3/2026

Pekanbaru, Riau, Indonesia

- Relevant coursework: Software Requirements, Data Structures, Databases.
- Thesis (96 pages) titled "Translasi Mesin Batak Toba-Indonesia (dan Sebaliknya) via Transfer Learning dengan NLLB (No Language Left Behind)": <https://drive.google.com/file/d/1coDyvZ3nVoeOXnK1tSfnLHUBpzORUHGI/view?usp=sharing>.

- Journal paper (10 pages) titled "Batak Toba language-Indonesian machine translation with transfer learning using NLLB (No Language Left Behind)", published in IJAAS 2024 (indexed in Scopus Q4 and SINTA 1): <https://doi.org/10.11591/ijaas.v13.i4.pp830-839>.

SKILLS

LANGUAGES: JavaScript/TypeScript, Go, Python, SQL.

BACKEND: Node.js, Express.js, Nest.js, Gin.

FRONTEND: React, Next.js, CSS/Tailwind, React Native/Expo.

DATABASES: PostgreSQL, MySQL, SQLite, MongoDB.

API: RESTful API, GraphQL, RPCs.

TOOLS: Git, Docker, Bash, WSL (Ubuntu), AWS (S3, EC2, Rekognition), CI/CD tools.

PERSONAL+CLIENTS' PROJECTS

url-shortener (TS, Fullstack)

([Website](#)) ([Code](#))

- Implemented short-to-long URL redirection using middlewares, unit tests using Jest, data storage using Turso libSQL (SQLite)+Drizzle ORM, OAuth using Auth.js (NextAuth.js), server components using React, and Server Actions from Next.js.

rest-api-ts-sqlite (TS, Backend)

([Website](#)) ([Code](#))

- Delivered a RESTful API to manage order and inventory data along with other technical requirements per the client's request.
- Used Falso `@ngneat/falso` (a faster, tree-shakeable alternative to Faker.js) for testing purposes.

apollo-server-graphql-jwt-ts-simple-auth-backend

(TS, Backend)

([Code](#))

- Built an auth backend that uses Apollo GraphQL and JWT (JSON Web Token) and is based on credentials (email and password). It is linked to a Turso libSQL (SQLite) database.

kampung-sengkemang (HTML+CSS+JS, Frontend)

([Website](#)) ([Code](#))

- Built an official website for a village hall following the client's request (the village head).

cafeineeee.me (TS, Frontend)

([Website](#)) ([Code](#))

- Implemented CI/CD pipelines with `pre-commit` hooks and Biome.js.
- Added gesture-based (native like) navigation for better UX.
- Used AWS S3 for storing media files (images, etc.).

hacker-news-clone (TS, Frontend)

([Website](#)) ([Code](#))

- Built a fully responsive, 1-to-1 clone of the Hacker News website, <https://news.ycombinator.com>.

batak_toba_indonesian_nmt (Python, Machine learning)

([Code](#))

- Developed a Neural Machine Translation (NMT) model for translating between BBC (Batak Toba) and IND (Indonesian), a low-resource language pair, aiming to bridge the linguistic gap for Batak Toba speakers. Before June 2024, Batak Toba was not supported in Google Translate, making this model a pioneering effort in facilitating automated translation for the language.
- Curated a parallel corpus by sourcing Batak Toba-Indonesian text pairs from various resources, including academic papers and community-driven translations.
- Directly surveyed elderly, native Batak Toba speakers in Tebing Tinggi, North Sumatra to gather additional supporting data for linguistic analysis, validate translation accuracy, and include culturally relevant expressions often missing from written sources.
- Preprocessed the data by tokenizing text, and fixed misaligned sentence pairs.
- Achieved better results than all previous research in this area, proving that my approach works effectively and improves translation quality.
- Try out the live models on HuggingFace here:
 - BBC→IND: <https://huggingface.co/kepinsam/bbc-to-ind-nmt-v5>.
 - IND→BBC: <https://huggingface.co/kepinsam/ind-to-bbc-nmt-v5>.

EXPERIENCE

Data Analyst (Intern)

3/2023 – 6/2023

Bank Indonesia

Central Jakarta, Jakarta, ID (onsite)

- Conducted research on the sentiments of Indonesian citizens about major banking issues that were currently happening, using social media data.
- Built a Twitter scraper using Python to collect supporting data for analysis.
- Engaged with clients, i.e., customers and conventional banks' employees, at FEKDI 2023 (held in Hall B JCC Senayan) to discuss consumer protection issues and to provide support as needed.
- Got awarded as Top 10 Intern (out of 146 ≈ 6.85%).
- Tools: Python, Excel, Power BI, Git.

Software Engineer (Intern)

9/2022 – 12/2022

PT Berau Coal

Berau, East Kalimantan, ID (onsite)

- Developed a full-stack reporting/dashboard app for the department from scratch.
- Utilized authentication and role-based authorization using Auth.js (NextAuth.js).
- Implemented data access layer using Drizzle ORM and Planetscale MySQL database.
- Created a fully-responsive interface using React, Tailwind, and Material UI.
- Tools: TS/JS, Node.js, React, Next.js, Auth.js (NextAuth.js), Drizzle ORM, MySQL, Git.