CEVIN SAMUEL

Fullstack Web Developer (with 2+ yoe)
Pekanbaru, Riau, Indonesia (able to relocate)

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EDUCATION

Informatics, Bachelor of Engineering *8/2020 – 3/2025*

Universitas Riau *Pekanbaru, Riau, Indonesia*

- Cumulative GPA: 3.27/4.
- Relevant coursework: Software Requirements, Data Structures, Databases.
- Journal paper (10 pages) titled "Batak Toba language-Indonesian machine translation with transfer learning using No Language Left Behind (NLLB)", published in the academic journal International Journal of Advances in Applied Sciences (IJAAS) indexed in Scopus Q4 and SINTA 1 (as of June 2024): https://doi.org/10.11591/ijaas.v13.i4.pp830-839.
- Thesis (96 pages) titled "Translasi Mesin bahasa Batak Toba-Indonesia dan Sebaliknya menggunakan Transfer Learning No Language Left Behind (NLLB)": https://drive.google.com/file/d/1coDyvZ3nVoeOXnK1tSfnLHUBpzORUHGl/view?usp=sharing.

SKILLS

JavaScript/TypeScript, Python, Node.js, REST APIs, React, Next.js, CSS/Tailwind, SQL, Git.

PROJECTS

caffeineeee.me *(TS, Fullstack)* *(Website) (Repo)*

- Built OAuth auth backend using Auth.js (NextAuth.js), enabling a more secure and easier login.
- Enhanced code quality by implementing CI/CD pipelines with `pre-commit` hooks and Biome.js for automated linting, fixing, and formatting.
- Improved the UX by adding swipe gesture-based navigation with animation, mimicking native behavior using TouchEvent.
- Tools: TS/JS, Node.js, React, Next.js, Tailwind, Auth.js (NextAuth.js), Drizzle ORM, Turso libSQL (SQLite), Git.

url-shortener *(TS, Fullstack)* *(Website) (Repo)*

- Applied BASE62 encoding to generate the shortened URL.
- Used Next.js middleware for redirection if a short URL maps to a long URL.
- Adopted Test-Driven Development (TDD) to develop the core functionalities by creating unit test cases with Jest, increasing reliability.
- Tools: TS/JS, React, Next.js, Tailwind, Auth.js (NextAuth.js), Drizzle ORM, Turso libSQL (SQLite), Jest, Git.

rest-api-ts-sqlite *(TS, Backend)* *(Website) (Repo)*

- Delivered a fully functional REST API backend for managing order and inventory data, aligned with the technical requirements/specifications per the client's request, in 7 days.
- Streamlined testing processes using Falso `@ngneat/falso` (a better, tree-shakeable alternative to Faker.js) for mock data generation.

apollo-server-graphql-jwt-ts-simple-auth-backend *(TS, Backend)* *([Repo](#))*
- Learned Apollo GraphQL from scratch and delivered a fully functional auth backend, aligned with the technical requirements/specifications per the client's request, in 10 days.
- Automated the generation of JS scripts from TS using TS Compiler, allowing the backend to run by consuming the generated JS scripts.
- Developed a credentials-based (email & password) auth backend using Apollo GraphQL and JSON Web Token (JWT).
- Tools: TS/JS, Apollo GraphQL, Turso libSQL (SQLite), JSON Web Token (JWT), Git.

hacker-news-clone *(TS, Frontend)* *([Website](#)) ([Repo](#))*
- Built a 1-to-1 clone of the Hacker News website, https://news.ycombinator.com, to practice styling skills using Tailwind.
- Tools: TS/JS, Node.js, React, Next.js, Tailwind, Git.

batak_toba_indonesian_nmt *(Python, Machine learning)* *([Repo](#))*
- It's like Google Translate, but for Batak Toba (BBC) and Indonesian (IND) language-pair, because there is no option for Batak Toba in Google Translate (not until around June 2024, per https://support.google.com/translate/answer/15139004, by which time I had submitted my paper).
- It's enough for translating short sentences (<30 words), but not for translating long paragraphs.
- 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.
- Tools: Python, PyTorch, Transformers, Git.

EXPERIENCE

Data Analyst (Intern)   *3/2023 – 6/2023*
Bank Indonesia   *Central Jakarta, Jakarta, Indonesia (onsite)*
- Conducted research on the sentiments of Indonesian citizens about major banking issues that were currently happening, using social media data.
- Developed Python program to scrape Twitter with search queries and filters, enabling efficient collection of social media 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%) of KMBI VI—KMBI VI refers to the name of the internship program.
- Tools: Python, Excel, Power BI, Git.

Fullstack Web Developer (Intern)   *9/2022 – 12/2022*
PT Berau Coal   *Berau, East Kalimantan, Indonesia (onsite)*
- Developed a full-stack, typesafe Next.js app to provide a reporting system for my department.
- Utilized authentication and role-based authorization using Auth.js (NextAuth.js).
- Implemented a robust data access layer with Drizzle ORM and Planetscale MySQL database.
- Created a user-friendly reporting interface with React and Tailwind.
- Tools: TS/JS, Node.js, React, Next.js, Tailwind, Auth.js (NextAuth.js), Drizzle ORM, MySQL, Git.