

# Kenneth Filbert

## AI & Software Engineer

### CONTACT

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### PROFESSIONAL SUMMARY

A Full-Stack and AI Engineer with a Master's in Computer Science specializing in Machine Learning and NLP. Proven ability to architect end-to-end applications using React and Next.js, integrated with advanced LLM pipelines and backend Python systems. Passionate about optimizing data flows, deploying local AI models, and building scalable system architectures.

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### TECHNICAL PROJECTS

#### IDX Stock Market Analyzer

A personal project that engineered a full-stack financial dashboard using Next.js for the frontend and Python for backend analytics. Integrated Dockerized Model Context Protocol (MCP) servers to power AI-driven market scanning and algorithmic trading strategies for the Indonesian stock exchange.

#### Food Receipt Analyzer

A personal project that engineered a full-stack food receipt analyzer using Next.js, Prisma and an API call method for each function. An AI-integrated system that could read a food receipt captured by photo, extract all the needed information (formatted), and save the data into the database. Another feature is that the user can discuss expenses or anything else by using the chatbot feature.

#### AOG Arena Platform

Developed a comprehensive administrative dashboard and web frontend utilizing Next.js. Engineered custom security middleware, specifically designing the authentication flow to handle client\_token verification securely outside of standard browser cookie storage.

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### PROFESSIONAL EXPERIENCE

#### Part Time Project Manager | Nov 2024 - Dec 2024

Roundbytes - Remote - Taiwan

- Led a web development project using React.js and Vite, ensuring smooth collaboration through Slack
- Implemented automation deployment with Vercel and handled version control and CI/CD via GitLab
- Oversaw timelines, coordinated tasks, and ensured successful project delivery to client

#### Intern Front End Web Developer | Feb 2024 - Aug 2024

CBN Cloud - Onsite - Jakarta, Indonesia

- Increase the company's performance by finishing 4 projects (internal projects and external projects)
- Implemented the concept of Micro-Frontend in some projects and integrated it with React to achieve higher efficiency
- Implemented Agile SDLC and strongly collaborated with the developer team
- Implemented frontend security

## Front End Web Developer | Aug 2023 - Feb 2024

Freelance - Remote - Taiwan

- Frontend developer using React + Vite + Tailwind and integrated with GraphQL API for fetching or mutating data from the database
  - Increase productivity for the company to create more features by creating a reusable component
  - Implemented clean code engineering by refactoring all the dirty code
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## EDUCATION & RESEARCH

### Master of Computer Science | Bina Nusantara University (2024 - 2026)

- **GPA:** 3.98
- **Focus:** Machine Learning and Cybersecurity
- **Thesis/Publication:** "Application of the Cascade Method in the Integration of Whisper and Ensemble NLP for Speech Summarization" (**ISRITI**)

### Bachelor of Computer Science | Bina Nusantara University (2021 - 2025)

- **GPA:** 3.91
  - **Focus:** Software Engineering and Machine Learning
  - **Publication:** "Emotion Detection in Textual Data using Deep Learning" (**ICCSCI**)
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## TECHNICAL SKILLS

### Programming Languages

TypeScript, JavaScript, Python, SQL, C++, C#, HTML5, CSS3, Java, PHP

### Frameworks and Libraries

React, Next.js, Node.js, Vite, Tailwind CSS, Framer Motion

### AI & Machine Learning

PyTorch, TensorFlow, NLP, LLM Integration, Ollama, Whisper, T5, BART, Pegasus

### Tools and Platform

Git, Docker, GraphQL, REST APIs, Supabase, Firebase, Vercel