

# BAO NGUYEN NGOC GIA (BERNIE)

SOFTWARE ENGINEER INTERN | SUI STACK DEVELOPER | WEB3 BUILDER

## CONTACT

Email: [bernie.web3@gmail.com](mailto:bernie.web3@gmail.com)

Portfolio: <https://bernie-nguyen.netlify.app>

GitHub: <https://github.com/bernieio>

LinkedIn: <https://www.linkedin.com/in/bernieio/>

## PERSONAL STATEMENT

Builder-driven, product-oriented blockchain engineer with strong hands-on experience in **Move**, **Sui DeFi systems**, **decentralized coordination protocols**, and **AI-augmented development**. Adept at transforming complex technical concepts into production-ready blockchain applications with clear impact, security, and performance. Passionate about building scalable, real-world solutions on the Sui ecosystem.

## SKILLS

### Blockchain & Smart Contract Development

- Sui Stack Development with:
  - Move
  - DeepBook integration
  - Walrus integration

### Frontend & Full-Stack Development

- TypeScript / JavaScript
- React.js / Next.js
- Tailwind CSS / Bootstrap / Reactbits
- Node.js
- Express.js
- PostgreSQL (Supabase, Neon.Tech)

### Tools & Workflow

- Git / GitHub
- CloudFlare (Workers, R2, KV, D1)
- Web App Deployment Platform (Netlify, Vercel, Render)
- Generative AI Workflow Assistant (Cursor IDE, Claude Code, Google Antigravity, Bolt.new)

## EDUCATION

University of Transport and Communications – Campus in HCMC

**2020 – 2025**

B.Eng. in Information Technology (2020–2025)  
Graduated with **Grade A** for Final Thesis

## CAREER OBJECTIVE

To contribute as a **Web3 + Move Smart Contract Engineer**, leveraging full-stack blockchain skills to build secure, scalable applications and foundational DeFi infrastructure.

## FEATURED PROJECTS

## ORLIM

**Role:** Founder & Lead Developer

**Tech:** Move, TypeScript, Next.js, DeepBook, PTB, Sui Object Model

**GitHub:** <https://github.com/bernieio/bernie-projects/tree/main/orlim>

**Description:** A fully on-chain limit order engine for Sui featuring **Limit Order**, **OCO**, and **Time-in-Force**, leveraging Sui's object-centric model and parallel transaction execution. Each

order is represented as a unique Sui Object for transparency and ownership.

**Impact:**

- Achieved **~67% lower gas cost** vs existing solutions on Solana/BNB.
- Native **MEV resistance** through PTB and predictable object states.
- Implemented **batch PTB execution** + flexible Order Receipt design.
- Runner-up at **Sui Bootcamp HCMC 2025 Hackathon**.

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**GRADUATE THESIS**    **GRADE A**

**"Mosaical – NFT Lending with Dynamic Yield-Backed NFT Financing"**

A new financing model combining Peer-to-Pool and Fractional NFT Ownership, inspired by BendDAO lessons and frameworks from NFTX/Unicly. Built originally on Saga Chainlet; planned migration to Sui for better DeFi composability.

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**FEATURED PROJECT**    **FLOODGUARD**

**Role:** Full-Stack Blockchain Developer

**Tech:** Sui Move, Walrus, Next.js 16, TypeScript, Mapbox GL, AI matching engine

**GitHub:** <https://github.com/bernieio/bernie-projects/tree/main/floodguard>

**Description:** A production-ready decentralized disaster relief coordination protocol using **Walrus decentralized storage**, **Move smart contracts**, and a real-time **AI-powered bipartite matching engine**. Designed to solve transparency and allocation inefficiencies in Vietnam's emergency response.

**Impact:**

- Optimized system load time from **13s** → **~2s** with singleton + event-driven architecture.
- Precise geohash-based location ( $\pm 19m$ ) ensures accurate relief routing.
- Secure evidence storage via Walrus; fully transparent resource flows.
- Submitted to **Walrus Haulout Hackathon 2025**, AI x Data track.

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**LANGUAGES**

**English:** B1 (VSTEP certified)

**Vietnamese:** Native

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**ACHIEVEMENTS & HACKATHONS**

**Web3 Ideathon 2025**

Top 10 Finalist

**SEA Ideathon 2025**

Top 8 Finalist

**TLS-Innovation 2025**

Runner-up

**Sui Bootcamp HCMC 2025 Hackathon**

Runner-up

**Walrus Haulout Hackathon 2025**

Submitted, AI x Data Track