

# ERICK JILLO

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## PROFILE SUMMARY

Performance-driven Backend Software Engineer with expertise in building scalable distributed systems and high-concurrency APIs. Proficient in Go, Python, and Node.js, with a strong foundation in AI-driven financial modeling and Linux system administration. Proven track record of developing innovative CLI tools and production-ready FinTech solutions.

## TECHNICAL SKILLS

**Languages:** Go, Python (PyTorch), Node.js, TypeScript, JavaScript, C, Bash/Shell

**Backend & APIs:** Express.js, Flask, RESTful APIs, WebSockets (Socket.io), Distributed Systems

**Data & AI:** PostgreSQL (NeonDB), ConvexDB, Redis, Deep Learning (Seq2Seq Models), Prisma ORM

**Tools & Infrastructure:** Docker, Linux Admin, Git, CI/CD, FZF, VSCode Extension Development

## PROFESSIONAL EXPERIENCE

### Bunifu Capital

Jan 2024 – Present

#### *Backend Software Engineer*

- AI-Driven Credit Scoring:** Engineered a proprietary credit scoring engine using Python and PyTorch, implementing sequence-modeling (Encoder-Decoder) to predict creditworthiness from complex financial datasets.
- Payment Integration:** Led the integration of secure multi-channel payment systems, streamlining mobile money and bank transactions for digital lending products.
- Security & Compliance:** Hardened platform security via JWT-based authentication and end-to-end encryption, ensuring full compliance with financial data protection standards.
- System Performance:** Optimized backend scoring algorithms for high-concurrency request loads, reducing latency for real-time loan processing.

### Unimarket E-commerce API

Project

#### *Lead Backend Engineer*

- Architected a high-concurrency marketplace API for university students using Node.js and Prisma, maintaining 99.9% uptime for concurrent product transactions.
- Implemented real-time chat functionality via Socket.io, improving peer-to-peer coordination and user engagement.

### PYDOWN (CLI Tool)

Project

#### *Developer*

- Developed a Python-based terminal client for YouTube, utilizing FZF for fuzzy search and mpv for media playback, reducing system resource overhead by avoiding browser-based interfaces.

### Code Constellation

Project

# TypeScript Developer

- Built a VSCode extension to graphically visualize project folder structures as interactive nodes, improving codebase navigation and developer productivity.

## EDUCATION

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**Egerton University**

**Expected 202X**

*Bachelor of Science in Computer Science*

**Udemy**

**2024**

*Python Certified Developer (Candidate)*