Ngô Ngọc Đức Huy

Education

- 2018 – 2021: Bachelor degree at University of Science and Technology of Hanoi (USTH) in ICT

Languages

- Vietnamese (native)
- English (IELTS 8.0)
- French (TCF 363)

Skills

Programming

- Backend:
  - **Python**
  - **Ruby on Rails**
  - **Node JS**
- Protocols: **REST API**, **WebSockets**, **JSON RPC** over NATS
- Frontend: **HTML**, **CSS**, **JS**/**TypeScript**
- Scripting: **Bash**, **Python**
- Other languages: C#, Go, Elixir,... (infrequent use)
- Messaging: **Kafka**, **NATS**
- Databases:
  - Relational: **MySQL**, **PostgreSQL**, **SQLite**
  - Non-relational (NoSQL): **ClickHouse**, **Redis**, **MongoDB**, **RethinkDB**, **DynamoDB**, **ElasticSearch**
- VCS: git, mercurial, fossil

System operations

- Operating systems: **Linux**, **Windows**, **OpenBSD**
- Cloud: **AWS**, **Azure**
- Deployment: **Docker**, **Kubernetes**
- Web server: **nginx**, **traefik**
- Build & packaging tools: poetry, flit, nix

Basic info

E-Mail
huyngo@disroot.org
Location
Hà Nội, Việt Nam
Phone
(available upon request)
Projects
https://git.sr.ht/~huyngo
https://github.com/Huy-Ngo
Personal website
https://xrvs.net/

Work experience

- 2024 – present: Senior Software Engineer at EAERA

  EAERA is a fintech company providing solutions for Forex brokers and Prop Firms.
  - Develop and maintain an event-driven CRM system with trading platform integrations and plugins:
    - Trading platform integration: MT5, DX Trade, Match Trader
    - Additional trading features: Pool Trading (PAMM/MAM), Trading competition, Prop Trading
    - Partner Portal (IB/Affiliate management subsystem)
    - Various PSP integrations
  - Beyond development: Writing solutions and architecture designs for new features, deployment of new services
  - Technologies:
    - Backend: Ruby on Rails, Python, FastAPI, C#, Node JS
    - Frontend: Vue JS
    - Database: PostgreSQL, ClickHouse, Redis
    - Messaging: Kafka, NATS
    - Deployment: Docker, Kubernetes, Azure, ArgoCD
- 2023 – 2024: Software Engineer at EasyGDS (Remote)

  EasyGDS is an ecommerce service for planning and booking trips.
  - Worked on booking system and other microservices
  - Technologies:
    - Backend: Python, Flask, FastAPI
    - Database: PostgreSQL, MongoDB, Redis
    - Deployment: Docker, Kubernetes, Rancher
- 2021 – 2023: Software Engineer at CMC Global

  CMC Global is an outsourcing company. My main client during the time here was a company providing data-driven solutions for commercial services.
  - Worked on the project as the primary backend developer
  - Allocating tasks and review code
  - Technologies:
    - Backend: Python, Django, Celery, Pandas
    - Frontend: React JS
    - Database: MySQL, Redis, DynamoDB
    - Deployment: Docker, AWS
- 2021: Intern at Bizfly Cloud
  - Research and develop search utility for webmail service
  - Technologies: Python/Flask, Elasticsearch

Other Skills

- Project management with Agile model using **Jira** or **Azure DevOps**
- Other stages of software engineering cycle: requirement clarification, specification, architecture/solution design, testing
- Helping new members onboarding team

Open Source Projects

Personal projects

- memedes
  - Meme templating web app with image description
  - Technologies: Python, Sanic Framework, Redis
- witchie (forked project):
  - CLI / TUI client for Akkoma
  - Technologies: Python, WebSockets
- acanban:
  - Kanban board project management for school projects
  - Technologies: Python, Quart Framework, Trio, RethinkDB
- palace:
  - Wrapper library for 3D audio processing
  - Technologies: Cython, OpenAL
- ex.tra:
  - Experimental dictionary server supporting RFC 2229 protocol
  - Technologies: Elixir, OTP
- static-status
  - Status tracker as a static page, used for tracking status for loang.net
  - Technologies: Go, HTML

Contributions

- nixpkgs: Software packages for NixOS
- akkoma: Independent federated social media

  Contributed front-end bug fixes (Vue JS framework)
- sanic framework: A performant asynchronous Python web framework

  Contributed bug fixes for Sanic web server

Others

- loang.net (co-sysadmin): shared NixOS server

  Services hosted
  - personal websites (using nginx)
  - email server + webmail
  - ntfy push notification server
  - git web server
  - luminar CI
- IPWHL (co-maintainer): alternative Python packaging backed by IPFS, a p2p file system