

# Ahmed Thabet

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I'm a Cloud Software Engineer, I've been programming in *Python* for +10 years and I use Golang and Python to deliver beautiful applications.

## Experience

- *Codescalers*: Software Development Team Lead (2020 - Now) Leading the development the Jumpscale cloud framework, 3Bot virtual system administrator, and the virtual data center (VDC)
- *Codescalers*: Software Engineer (April 2016 - 2020) Development of new cloud tools that is used to manage infrastructure, virtual machines and containers.
- *Otlob.com*: Data analyst (Freelance) extracting audio fingerprints from huge video datasets for marketing campaign evaluation.
- *Orascom Telecom*: Web developer (Freelance) PHP/CodeIgniter project to manage their internal servers conditioning information moving away from Excel sheets

## Work

### Codescalers

- *JS-NG*: lead the development of the next generation automation/configuration framework (python, gevent, docker)
- *JS-SDK*: lead the development of the threefold.io grid software toolkit and the threebot application server. (python, gevent, docker)
- *VDC*: lead the development of Virtual Data Center (kubernetes cluster, S3, monitoring prometheus/grafana, management dashboard) on the Threefold grid, giving customers their own virtual data centers, the stack is (python, gevent, stellar blockchain)
- *VDC Marketplace*: lead the development of Virtual Data Center Marketplace (1-click applications deployments on the virtual data center)
- *Threefold Marketplace*: lead the development of Threefold marketplace, based on the js-sdk framework, to have 1-click applications running on the threefold grid
- *publishingtools*: lead the development of web publishing framework for hosting wikis, blogs and websites mainly for threefold and its grid services. (crystal, kemal, svelte)
- *CRM*: lead the development of a generic CRM system for threefoldtoken foundation (python, flask, uwsgi, sqlalchemy, flask-admin, postgres, graphql, docker, bash, oauth2)

- *0-Disk*: Developed a network block device (NBD) server with multiple backends for storage. The project was later replaced with 0-db (tarantool, fio, lua)
- *AYS*: agentless orchestration infrastructure as code and built on top of Jumpscale framework. It's used to provision virtual machines, deploy containers, services and it handles the orchestration and dependencies for the applications. Developed the Events system, background task, service templates for owncloud, s3, php, nginx
- *OpenVCloud*: cloud platform based on libvirt and Python. Developed new tools for it to improve monitoring and alerting system, and multiple health checks hardware components (e.g IP watcher, dead routers, fans, power supplies, temperature)
- More: OAuth provider for *Gogs*, *DMIDecode parser*, *rtinfo* integration, internal development flow automation project (ays\_dev\_process), github-gogs synchronizer, documentation generators for Jumpscale7 and Jumpscale8

## Open Source Projects:

- pygundb GUN.js database server and client (python, flask, gevent, asyncio)
- tcprouter TCP router with SNI routing (go)
- nim-servy Nim webframework
- vscode-capnp Capnp plugin for vscode
- flask\_itsyouonline Itsyou.online OAuth2 Middleware for flask
- python-pcre PCRE for python using ctypes
- pyparsec Parser combinator library for Python
- helloED Pluggable fast PyGTK text editor
- stellargui lightweight stellar blockchain wallet application.
- python-sonic-client Python client for sonic search backend
- nim-redisclient Redis parser and client for Nim
- nim-parsec Parser combinator library for Nim
- nim-configparser INI Config parser for Nim
- nim-bencode Bencode parser library for Nim
- Pida IDE contributed RegexToolkit and pastebin plugins.
- raml2spore Generate SPORE client from raml specifications

## Publications/Translations:

- Nim Days: Practical applications/libraries in Nim language
- Python: Extensive Guide
- Introduction to Ruby
- Translations PyQt4, PyGTK, MonoIronPython, Cairo tutorials to Arabic

## Buzzwords

- Languages: Python, Ruby, Go, PHP, Nim, Typescript, Crystal, C, Bash, Scheme, Haskell
- Databases: MySQL, PostgreSQL, MongoDB, Redis
- APIs: swagger, RAML, and GraphQL
- Web Frameworks: Flask, Flask-admin, Sanic, Django, CodeIgniter
- Frontend frameworks: Svelte, Sapper, Vue
- Continuous Integration: Docker, travis-CI

## Education/Languages

- BS in Electrical Engineering, Helwan University, Cairo, Egypt
- English: Business Level (speaking, reading, writing)
- German: Limited working proficiency (B1.1)