



Alejandro Avilés

Software Engineering / Cryptoeconomics / UX
Crafting tools for human cooperation.

Geneva (Switzerland)
omegak@gmail.com
+41 789 75 1193
<http://omegak.io>

SKILLS

Breathing underpressure
Becoming what I must
Escaping rabbit holes
Taming perfectionism
Saying what I think
Getting shit done
Keeping friends

PROGRAMMING

Python (7 years)
Javascript (7 years)
HTML & CSS (7 years)
Shell (7 years)
Haskell (learning)

TECHNOLOGIES

Git, CI/CD, Ansible,
Docker, PostgreSQL,
React, Webpack, PGP,
OAuth, LaTeX, GitLab,
pytest, ipfs, etc.

PROJECTS

[bonfire.link](#)
[Dotfiles engine](#)
[Blindstore](#)

LANGUAGES

Spanish (native)
English (almost native)
French (intermediate)

THINGS I LOVE

A strange story,
A deep conversation,
A dance until sunrise,
An uncertain journey,
An impossible challenge,
Reading philosophy,
Meditating daily,
Riding slopes,
Making music,
Mixing deep house,
Competing at Melee,
And coffee with milk.

EXPERIENCE

2019 Nov — present

Full-Stack Software Engineer

Using Indico, UNOG handles on-site visitors and events with thousands of participants around the world.

- Provided strategic advice on product development and architectural decisions.
- Developed custom features for Indico, both upstream and as add-ons, to meet complex requirements.
- Introduced agile collaboration methodologies in the team and continuous integration in the project.

2017 Mar — 2019 May

Chief Technology Officer

Bity is a Swiss tech startup offering cryptocurrency exchange services online.

- Managed product lifecycles, developed a price-tracking software, researched off-chain payment channels.
- Built company culture and set up tools and processes for collaboration within and across different teams.
- Hired +10 engineers and coordinated the transition from a legacy microservice architecture.

2013 Mar — 2017 Feb

Full-Stack Software Developer

Indico is a web application for conference organization used at CERN, UN, Fermilab, and 150+ other places.

- Rewrote entire Python backend and most of the frontend for maintainability, performance, and usability.
- More: LDAP integration, devops, user support, technical training, open source management.

EDUCATION

2012 Oct — 2016 Sep

Master in Machine Learning

- Thesis: Survey on style transfer techniques and generative models with neural networks.

2010 Sep — 2012 Jul

Master in Computer Science

- Thesis: Evacuation route discovery on catastrophe scenarios using ant colony optimization.
- Exchange programs at *University of Central Florida* and *Tokyo University of Science*.

2007 Sep — 2010 Jul

Degree in Computer Engineering

- Obtained Platinum Curriculum recognition for academic and social merits.
- Run a weekly podcast about web technologies at *UniRadio Jaén* radio station.

TRAINING

2019 Blockchain Developer (University of Nicosia)

- Digital currency programming, security in cryptographic systems, applications of Bitcoin and Ethereum.

2016 Certified White Hat (CERN)

- Injections, cross-site scripting, request forgery, race conditions, framework exploits, etc.

2015 CERN School of Computing (University of Kavala)

- Multicore programming, architecture performance tuning, cloud storage, networking QoS, data analysis.

AND SOME OTHER STUFF

2019 Talks: "Sharp forks — On open source governance" (Chaos Communication Congress)

2018 Talks: "Computing for decentralized systems" (CERN)

2017 Talks: "The path of code linting" and "Flex-box, the yoga of CSS" (CERN)

2018 — Volunteering: Organized Swiss Cryptoeconomics assembly (Chaos Communication Congress)

2014 — Volunteering: Organized and mentored multiple hackathons (CERN)