



Alejandro Avilés

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

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SUPERPOWERS

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

PROGRAMMING

Python (6 years)
Javascript (6 years)
HTML & CSS (6 years)
Shell (6 years)
Haskell (learning)
Solidity (learning)

TECHNOLOGIES

Git, CI, linters, Ansible,
Docker, Flask, Django,
Celery, PostgreSQL,
SQLAlchemy, pytest,
mypy, React, Webpack,
Bitcoin, Ethereum, etc.

PROJECTS

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

LANGUAGES

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

THINGS I LOVE

A strange story,
A deep discussion,
A dance until sunrise,
A spontaneous journey,
An impossible challenge,
Philosophy, Meditation,
Snowboarding, Melee,
Open source, Music,
And coffee with milk.

EXPERIENCE

2017 Mar — 2019 May

Chief Technology Officer

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

- Managed product development, wrote 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 and onboarded +10 engineers and coordinated the transition away from legacy systems.

<https://bity.com>

Bity (Neuchâtel)

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.

- Refactored entire Python backend and most of the frontend for maintainability, performance, and usability.
- Migrated the Flask application from using ZODB, an object-oriented database, to PostgreSQL.
- More: LDAP integration, devops, user support, technical training, open source management.

<https://getindico.io>

Indico (CERN)

EDUCATION

2012 Oct — 2016 Sep

Master in Machine Learning

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

GPA: 2.4

University of Granada

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*.

GPA: 3.54

University of Jaén

2007 Sep — 2010 Jul

Degree in Computer Engineering

- Directed and hosted a weekly program about technology at *UniRadio Jaén* radio station.
- Was the main organizer of Microsoft *.NET Club* events at my university.

GPA: 2.39

University of Jaén

TRAINING

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.

2014 Advanced Python (CERN)

AWARDS

2012 Platinum Curriculum recognition for academic and social merits (University of Jaén)

2012 Top of my Class at Master in Computer Science (University of Jaén)

2010 Top of my Class at Degree in Computer Engineering (University of Jaén)

AND OTHER STUFF

2018 Talks: "Computing for decentralized systems" and "The rise of digital nations"

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

2016 Workshop: Hands-on tutorial on Git

201~ Volunteering: Organized and mentored Summer Student Webfest hackathons (Geneva)

2011 Volunteering: Organized 5K+ visitor Japanese culture event (Jaén)