



Alejandro Avilés

Software Engineering / Cryptoeconomics / UX
Creating tools for a better humankind.

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SUPERPOWERS

Working under pressure
Disecting assumptions
Knowing what I want
Surfing uncertainty
Getting shit done
Keeping friends
Pixel-perfect design
Code speleology

PROGRAMMING

Python (6 years)
Javascript (6 years)
HTML & CSS (6 years)
Shell (6 years)
LaTeX (2 years)

TECHNOLOGIES

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

PROJECTS

Dotfiles engine
Blindstore
Everware

LANGUAGES

Spanish (native)
English (proficient)
French (intermediate)

THINGS I LOVE

An intricate story,
A deep discussion,
A party until sunrise,
An unplanned adventure,
An impossible challenge,
Crossfit, Snowboarding,
Hacking, Meditation,
And coffee with milk

EXPERIENCE

2017 Mar — now

Chief Technology Officer

Bity is a Swiss tech startup of 30~ employees offering cryptocurrency exchange services online.

- Developed a price trackign software, researched off-chain payment channels, designed new products.
- Bootstrapped the engineering team (10+ people) and coordinated the transition away from legacy systems.
- Built company culture, set up tools and processes for collaboration within and across different teams.

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 complete back-end and most of front-end, substantially improving performance and usability.
- Migrated Flask application from ZODB, an object-oriented database, to PostgreSQL.
- More: VM orchestration, LDAP integration, testing, user support, technical training.

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 Univesity of Science*.

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.

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)