



Alejandro Avilés

Full Stack Dev / UX / Machine Learning
I really enjoy making tools for people

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

SUPERPOWERS

Breathing underpressure
Pixel-perfect design
Code speleology
Explaining ideas
Naming stuff

PROGRAMMING

Python (5 years)
Javascript (6 years)
HTML & CSS (6 years)
Shell (5 years)
LaTeX (2 years)

TECHNOLOGIES

Git, Flask, PostgreSQL,
SQLAlchemy, Angular,
jQuery, Sass, Puppet,
Docker, pytest

PROJECTS

Dotfiles engine
Blindstore
Everware

LANGUAGES

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

THINGS I LOVE

A good discussion,
An intricate story,
A difficult video game,
Boxing, Snowboarding,
Hacking, Meditation,
Coffee with milk

EXPERIENCE

2013 Mar — now

<http://indico-software.org/>

Full-Stack Software Developer

Indico (CERN)

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

- Migrated Flask application from ZODB, an object-oriented database, to PostgreSQL.
- Refactored complete back-end and most of front-end, substantially improving user experience.
- Introduced numerous reusable UI components to enforce visual consistency application-wide.
- More: testing, machine orchestration, integration with LDAP, user support, technical training, etc.

2012 Jun — 2012 Sep

Data Visualization Engineer

CERN

- Developed interactive tool for LHC data visualization in Java EE and integrated it into Java Swing app.

EDUCATION

2012 Oct — 2016 Sep

GPA: 2.4

Master in Machine Learning

University of Granada

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

2010 Sep — 2012 Jul

GPA: 3.54

Master in Computer Science

University of Jaén

- 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

GPA: 2.39

Degree in Computer Engineering

University of Jaén

- 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)

2013 Design for Usability (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)

2011 Best student in the International Mobility Program (University of Jaén)

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

AND MORE

2017 Talk: The path of code linting

2017 Talk: Flex-box, the yoga of CSS

2016 Workshop: Hands-on tutorial on Git

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

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