



Andrés Álvarez

Web Developer & Software Engineer

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Professional Experience

Senior Backend Developer

2020 - Present

Growth Acceleration Partners

Developer and maintainer of Python serverless and non-serverless APIs deployed using AWS Lambda & ElasticBeanstalk for [System Surveyor](#).

Developed and Integrated Single Sign-On capabilities into a serverless Python API using SAML.

Created and developed an OpenAPI 3 compliant automated documentation pipeline for a serverless Python API using Github Actions and other 3rd party tools.

Developed Excel import/export workflows using Python and AWS Lambda that allowed users to import large data into the backend database using nicely formatted Excel files.

Improved and polished many deployment workflows using Github Actions.

(Python 3.8, AWS Lambda, Chalice, SQLAlchemy, Github Actions, OpenAPI 3, AWS S3, Pytest, MySQL, Flyway, Docker, python3-saml, Datadog, AWS SQS, AWS ElasticBeanstalk, FastAPI)

Senior Backend Developer

2019 - 2020

15Five

Feature development and maintenance of backend system for Objectives & Key Results (OKRs) feature (Python, Django, Django REST Framework, PostgreSQL, Redis, React)

Performance optimization work (Django, PostgreSQL, Kibana, New Relic, Dynatrace)

Backend Developer / Software Engineer

2017 - 2019

eLibro

Architected, created, and developed Librarian: a collection of serverless book processing microservices that processed more than 100K books. (Python, Serverless Framework, Amazon S3, AWS Lambda, Amazon SQS, Amazon SNS, Amazon Polly, Amazon DynamoDB, Elasticsearch)

Architected, created, and developed an OCR (Optical Character Recognition) extracting microservice that could process thousands of images in minutes. (Nodejs, Python, Serverless Framework, AWS Lambda, tesseract-ocr)

Created and developed eLibro Content Manager: A native desktop Netbeans Platform Java application for uploading and manipulating books stored in Amazon S3 and indexed in DynamoDB. (Java, Netbeans Platform, Java AWS SDK, Amazon S3, Amazon DynamoDB)

Created and Developed a serverless API to fetch and provide specific book pages stored in S3, and for performing full text search across thousands of books stored in Elasticsearch. (Python, Serverless Framework, Amazon API Gateway, Elasticsearch)

Development of elibro.net: a web application for eBooks used by universities. (Django, Django REST Framework, PostgreSQL, Amazon ElasticBeanstalk)

Development of experience.elibro.net: a web application for displaying free and premium ebook collections. (Django, PostgreSQL)

DevOps tasks for deploying different projects to AWS. As well as creating CI/CD pipelines for projects. (TravisCI, Amazon ElasticBeanstalk, EC2)

Software Engineer

2015 - 2017

Industrial Technology Research Institute (ITRI)

- Maintenance of ITRI's OpenStack and data center monitoring platform.
- Automatic gathering of hardware data for monitoring purposes (SNMP, IPMI)

- Development of new new features and addons for monitoring platform (Python, Zenoss, Zenpacklib).
- OpenStack and PDCM service orchestration with Juju
- Juju Charm development (Juju, Bashscript)

SAP Developer

2011 - 2011

Grupo POPA

- Development of add-on applications for SAP BusinessOne. (C#, Microsoft SQL Server, SAP SDK)

Education

Masters in Information Systems and Applications

2013 - 2015

National Tsing Hua University (NTHU), Taiwan

Research on botnet detection using network traffic analysis and machine learning

BSc Computer Science

2008 - 2012

Universidad Tecnológica Centroamericana (UNITEC), Honduras

Open Source Contributions

rails/rails	Ruby on Rails	1 Commit
aws/chalice	Python Serverless Microframework for AWS	5 Commits (47++, 25--)
aws/aws-sdk-java	The official AWS SDK for Java.	3 Commits (187++, 24--)
serverless/serverless	Serverless Framework	2 Commits
ajaxorg/ace	Ace (Ajax.org Cloud9 Editor)	11 Commits (472++, 231--)
openstack-dev/pbr	Python Build Reasonableness	1 Commit

Certificates

- Level 3 TOCFL (Test of Chinese as a Foreign Language) Listening & Reading
- Level 3 TOCFL (Test of Chinese as a Foreign Language) Speaking

Languages

- Spanish (Native Speaker)
- English (Fluent)
- Mandarin Chinese (Advanced)

