



# Andrés Álvarez

Web Developer & Software Engineer

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## Professional Experience

### Backend Developer / Software Engineer

2017 - Present

#### 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)

## Open Source Contributions

|                                       |  |                           |
|---------------------------------------|--|---------------------------|
| <a href="#">rails/rails</a>           | Ruby on Rails                            | 1 Commit                  |
| <a href="#">aws/chalice</a>           | Python Serverless Microframework for AWS | 5 Commits (47++, 25--)    |
| <a href="#">aws/aws-sdk-java</a>      | The official AWS SDK for Java.           | 3 Commits (187++, 24--)   |
| <a href="#">serverless/serverless</a> | Serverless Framework                     | 2 Commits                 |
| <a href="#">ajaxorg/ace</a>           | Ace (Ajax.org Cloud9 Editor)             | 11 Commits (472++, 231--) |

## Education

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### 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

## Certificates

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

## Languages

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