ANDREA TUPINI

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EDUCATION

Universita degli Studi di Trento ([Thesis](#))   *September 2017 - 2019*
Master's degree
Computer Science with emphasis in Data Science

Universidad Latina de Costa Rica   *January 2012 - 2015*
Bachelor's Degree
Computer Software Engineering

PERSONAL DESCRIPTION

A dynamic worker who enjoys challenging problems and learning. Great at working as part of a team and encouraging teamwork. Has strong technical background in computer science and is comfortable working both with frontend and backend technologies.

TECHNICAL STRENGTHS

Computer Languages	Python, Rust, Go, C#, Java, JavaScript/Typescript, Crystal, Bash, HTML, CSS, Sass
AWS Services	CloudFormation, Lambda, S3, CloudWatch, DynamoDB, CloudFront, API Gateway, Cognito, EC2, AWS Organizations, IAM, IOT Core, SES
DevOps	Bitbucket Pipelines, GitHub Actions, Travis CI, Ansible, Watchtower
Web	Angular, React, Webpack, async/await, observables, Gatsby, Bootstrap
Backend	Serverless, AWS SAM, .NET Core, Flask,
Data Science	TensorFlow, PyTorch, Scikit-learn, Keras, Pandas, Matplotlib, Seaborn, spaCy, Numpy, Rasa, NLTK
Platforms	AWS, Azure, GCP, DigitalOcean, Cloudflare, GitHub, Bitbucket, Jira, Heroku
OSs	Linux (*Arch* and *Debian*), Windows
Databases	MySQL, SQL Server, SQLite, MariaDB, DynamoDB
Others	Docker, Git, REST, Scrum, OOP, Make, Nginx, Apache, Latex, VestaCP, NodeRed

WORK EXPERIENCE

Cecropia Solutions   December 2019 - Present
DevOps / Tech Lead

My main responsibility was to optimize and automate deployment and testing flows for many applications developed by the company, as well as package development environments for developers, create resource architectures (on AWS), estimate costs of resources, and create/provision the required resources in cloud providers like AWS, Azure, and DigitalOcean. For CI/CD platforms mainly I used *bitbucket pipelines* and *github actions*, and also have some experience with *Azure DevOps* and *AWS CodePipelines*.

During this time I also worked as tech lead for the following projects:

- A job application board built with .NET Core web framework in the BE and Angular in the FE. The application integrates with Salesforce, where clients can manage job offers that appear in the board.

- An application for an automatic fertigation system built on AWS Lambda using the serverless framework (with Typescript), and Angular for the FE. In this project we leveraged the AWS IOT Core service to collect data from the irrigation devices. NodeRed was used for the preprocessing and handling of the actual IOT data.

- An application that tracks user actions when viewing files built on AWS lambda, using AWS SAM as framework and C#, and Angular for the FE. Clients of the application can see different metrics of the files they upload and optionally report metrics to Salesforce.

Wikimedia Foundation
Research   January 2019 - October 2019

While doing my master's degree I worked on a Wikimedia Foundation project called soweego, whose goal is to add references from entities in Wikidata to the same entity in an *external catalog* (eg, *imdb*).

My main responsibility was that of integrating machine learning techniques into the existent pipeline. I added multiple machine learning classifiers, tested them, and ended up implementing an *ensemble* of classifiers among all the classifiers to achieve an optimal score.

Cecropia Solutions
Software Developer   February 2016 - December 2019

Kept constant communication with an international marketing department team from a client company. During this time I developed various *media* for them, including: responsive emails, landing pages for promotions/webinars, and pages for products.

I also worked on developing and automating marketing campaigns related with the sending of emails to lists of leads who might be good candidates for the campaign, as well as generating reports for these campaigns.

We used *Marketo* to manage everything that is email related: creation, campaigns, and reports. *Salesforce* was used to manage leads, although I only interacted with it indirectly though Marketo. *Silverpop* (from IBM) was used as an email sending platform for non-marketing emails (onboarding emails mainly).

I also developed multiple applications for internal use with the purpose of automating the workflow, these were done mainly with Python, as well as an application which was widely used to manage email components and create emails.

Guias y Scouts de Costa Rica
Community work - Software Developer   Jan 2015 – May 2015

Development of a web application for internal use of the *scouts of Costa Rica*, to manage projects and participants in said projects. The application was built using Node.js/Express.js.

Arkkosoft
Intern Software Developer   May 2014 – Jan 2015

Developed an application to control and make reports of the actions made by agents of a call-center. Also developed another application to manage the data for scholarship applicants. Both this applications were made using Java/JSP.

LANGUAGES

Language	Spoken	Written
Italian	100%	100%
Spanish	100%	100%
English	95%	90%