Fabio Dias

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Overview

Areas of Expertise: Cloud based software development, data analysis and visualization.

Professionally used technologies: AWS: CloudFormation, IAM, Lambda, Kinesis; Python, React, d3, Git, PostgreSQL.

Work experience



StateStreet Corporation
Cloud Developer

STATE STREET Public Cloud Platform Engineering Team

Achievements:

• Creation a new tool to streamline CloudFormation development / deployment for established protocols

Activities:

- Log transfer infrastructure pipeline development
- Code and IAM policy review for security, compliance, and maintainability

Technologies: Python: boto / Lambda, CloudFormation, IAM, CloudWatch logs, SNS, Kinesis, EC2.

Cirico15, EC2.

University of Toronto2017-2019Postdoctoral FellowCanadaUrban Genome Project - School of CitiesCanada

Achievements:

• Creation of a new methodology to greatly reduce wrangling for georeferenced data

Projects:

- Geographical socio-economic interactive data exploration (live, code, paper, video)
- Identification of economic mega-regions from satellite images (live, code, blog)

Technologies: Python, CherryPy, Pandas, Keras, JavaScript, React, NLTK, Mapbox-GL.

NYU Tandon School of Engineering	2016-2017
Postdoctoral Fellow	USA
Visual analytics for network urban data	

Achievements:

• Invention of a new clustering method for interconnected data

Projects:

- Hypergraphs for data clustering (code, paper)
- Analysis of dynamic networks (social networks, street networks) (live, code, paper)

Technologies: Python, NetworkX, Scikit-Learn, JavaScript, jQuery, d3.



February 3, 2020

2019-Present

Canada

TSP	University of São Paulo Postdoctoral Fellow Visual analytics for network data	2015-2016 Brazil
Achievements:		
Demonstrated how network data processing can obtain insights from small datasets		
Projects:		
	twork data analysis using graph signal processing (live, paper) twork simplification via matrix factorization (paper)	
Technologies: Python, NetworkX, SciPy, NumPy.		
	Foundation for Science, Technology and Space Applications Systems analyst Project: <i>TerraClass WebGIS</i>	2014-2014 Brazil
Activities:		
 Software and interface design for an interactive WebGIS to monitor deforestation in the Amazon forest 		
Techno	ologies: PHP, JavaScript, jQuery, d3, PostgreSQL, PostGIS, Linux server.	
	University of Campinas Postdoctoral Fellow <i>Human motion analysis for underwater sports</i>	2013-2014 Brazil
• Cre	vements : eation of accurate biomechanics analysis software with cheap consumer can	neras
 Projects Camera calibration and motion capture with action cameras or smartphones (code) Ancillary contributions: electronic camera controls, server configuration 		
Technologies: Matlab, basic electronics, Windows server.		
Education and Knowledge Enhancement		
	Ph.D. in Computer Science - Université Paris-Est	2009-2012
UNIVERSITÉ ————————————————————————————————————	A study of some morphological operators in simplicial complex spaces Signal processing, data representation, network data	France
	M.Sc. in Computer Science - University of Campinas	2007-2009
	<i>Generalized visual rhythm and tracking in sport images</i> Computer vision, optimization, graphs	Brazil
	B.E. in Computer Engineering - University of Campinas	2002-2006
	<i>Information fusion and object tracking in video images</i> Information fusion, fuzzy and probabilistic methods	Brazil
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