Nicolas Roldos

Cloud, Web, Mobile, Geo

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Summary

- **Pivot**: After migrating ESRI GIS to cloud environments, **pivot to cloud architecting** and **customer facing roles**.
- **Cloud Solutions Developer** with expertise in AWS cloud adoption, full-stack web development, and cloud-GIS.
- **Currently architecting** cloud-native applications, leveraging, Lambda functions, ECS, Python, JavaScript, and React.
- **Building scalable platforms** for cloud content delivery, container-based data conversion, analytics applications.
- **Specializing in** "infrastructure-as-code," authentication systems, and autonomous AI workflows.
- **Currently pursuing** cloud and AI certifications: AWS Cloud Practitioner obtained **December 30th 2025**.
- **Expertise in** multi-account cloud, serverless, modern DevOps, AgenticAI and GenAI for solving business use cases.

Experience

Director of Digital Marketing and Information Technology

7x24 Exchange Southern California Chapter

Aliso Viejo, California; Remote — May 2024 to December 2025

- **Member of board of directors** for the 7x24 Exchange Southern California chapter.
- **Tuned SEO**, capturing **11** new sponsors in first year, **7** new sponsors in 2025.
- **Led growth** in memberships, sponsorships and events, expanding into the San Diego region.
- **Modernized** 7x24 Exchange Southern California Chapter's website frontend.
- **Increased CRM efficiency**, automating workflows, once taking hours, averaging **5** to **10** minutes with automation.

Product Engineer II

ESRI Inc. (Environmental Systems Research Institute)

Redlands, California; Remote — October 2018 to July 2024

- **Automation** of entire production workflow for raster web map tile services (WMTS).
- **Increased** production speed of raster map flow with automation by **4x** the speed of previous production flow.
- **Migrated** tiled base-map production & staging to **AWS S3** and **EC2** instances (for processing).
- **Built** a secured version of **Wayback App** for government client, in React, Redux, and Typescript: https://livingatlas.arcgis.com/wayback
- **Automated** cloud deployment of **14** Living Atlas services on **S3** & **EC2** instances using **Bash** and **Python**.

Instructor at University of Irvine California: Ui/Ux Design Course

University of California, Irvine

Irvine, California — January 2018 to December 2019

- **Led** classroom discussions, lectures, presentations, design critiques, & workshops.
- **Translated** Ui/Ux graphics for students into Frontend web development code: **HTML**, **CSS**, **Javascript**, & **jQuery**.
- **Increased** student satisfaction with course by **15%** seen in survey results at graduation.

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Experience

Web & Mobile App Developer — Full Time

Taylor Digital, LLC

San Clemente, — California December 2017 to December 2019

* **Developed** a cross-platform prototype & several Betas for Location Based Marketing (LBM) application, "**Valevo.**"
* **Increased accuracy** by **40%**, tuning geographic location accuracy logic for business locations targeted by the app.
* **Built and Shipped** cross-platform app to client
* **Tech stack**: Ionic, Angular, Typescript, Google Material Design, Swift, Objective-C, Java, Android Studio & Xcode.

Web Developer & DevOps — Freelance Contract

Apollo Mapping, LLC

Boulder, Colorado; Remote — January 2017 to December 2017

* **DevOps for Image-Hunter:** Satellite imagery search engine.
* **Technology Stack**: **Angular**, **TypeScript**, **Google Material** Design, **Python**, **Python Flask**,
* **Local development**: **Postgres** with **PostGIS**, **Celery** automation suite and **Bash**.
* **Staging and Production**: AWS **S3**, **RDS**, **EC2**, AWS **API Gateway** and **IAM** for secure team collaboration.
* **Updated backend** to feature new capabilities for micro-satellites:
    - Read, write, serialize, process and update satellite imagery assets stored on **AWS S3** bucket.
    - Validated and tested backend **Python Flask** code to work with Staging and Production database **AWS RDS**.
* **Implemented Python Imaging Library (PIL)** to programmatically correct or discard occluded satellite imagery.
* **Added 57** new micro-satellites to **Image-Hunter** satellite data catalog by implementing mitigations to backend.

Education

Masters of Science in Geographic Information Systems (GIS)

University of Redlands

Redlands, California — August 2013 to August 2016

Bachelor of Science in Geographic Information Systems (GIS)

University of Maryland

Colege Park, Maryland — August 2006 to December 2010

Immersive Full Stack Web Development certificate

Galvanize Inc.

Boulder, Colorado — January 2017 to July 2017