Silvana Bulatovich

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Summary

Backend Software Engineer with 6+ years of experience building and operating distributed systems in Go and Node.js/TypeScript. Strong background in cloud infrastructure (AWS), PostgreSQL at scale, microservices, and CI/CD. Published researcher in applied ML and geospatial data analysis. Active in the free and open source software community since 2014.

Technical Skills

Programming Languages: Golang, TypeScript, Python
Backend: Node.js, NestJS, REST APIs, microservices
Frontend: React
Cloud & Infra: AWS (EC2, S3, Lambda, RDS, SQS, CloudFront), Docker, Kubernetes, Terraform, Pulumi
Databases: PostgreSQL, MySQL, MongoDB
Observability & CI/CD: Datadog, GitHub Actions, GitLab CI, CircleCI
Other: Distributed systems, Linux, Bash, geospatial analysis (QGIS)
Languages: English (C1), Spanish (native)

Experience

Epwery / **2U** Nov 2021 – Oct 2024
Software Engineer | Remote

- Built and maintained backend and fullstack features in Go, React, PostgreSQL, and AWS for a multi-tenant enrollment platform supporting 20+ university configurations.
- Developed and maintained integrations with Salesforce and other external systems, handling tenant-specific mappings, validation rules, and data flows.
- Grew automated test coverage from 0% to 80%, catching real bugs and reducing deployment risk across the team.
- Improved CI/CD pipelines, production observability, and API reliability across multiple services.

SpaceDev Feb 2021 – Nov 2021
Software Engineer | Remote

- Designed and built the backend of a music track marketplace end-to-end, including purchase APIs, async audio transcoding pipelines, and metadata processing in Node.js/NestJS and TypeScript.
- Integrated AWS services for storage and delivery; decoupled background processing from request flows to improve scalability and operational stability.

Southworks Apr 2020 – Feb 2021
Software Engineer | Remote

- Contributed to Discovery's direct-to-consumer live streaming platform using Node.js, TypeScript, React, and AWS Media Services (MediaLive, MediaPackage, MediaConnect, Lambda).

Integral Software Aug 2019 – Apr 2020
Software Engineer | Entre Ríos, Argentina

- Enhanced a healthcare platform's reporting and database operations; contributed to PowerBI analytics for clinical workflows.

Inter-American Development Bank Dec 2018 – Aug 2019
Consultant – Satellite Image Processing | Remote

- Built Python ML pipelines (NumPy, Pandas, Scikit-learn) for satellite imagery classification and vegetation analysis using Landsat 8; co-authored a peer-reviewed publication.

Oro Verde Municipality / **CIN – CONICET** Jan 2014 – Dec 2017
Data & Software Consultant | Argentina

- Built epidemiological monitoring tools in Python and PostgreSQL; contributed to GNU Health; performed geospatial analysis with QGIS; co-authored a peer-reviewed publication.

Publications & Talks

- **Springer (2017):** Co-author, applied ML for geospatial classification. link
- **JAIIO – CAI (2019):** "Feature analysis for automated vegetation identification in Entre Ríos using Landsat 8." link
- **FLISoL (2016):** "Bioinformatics Was Born to Be Free" – FLISoL Paraná.
- **FLISoL (2019):** "Vegetation classification using QGIS and satellite image processing tools."

Education

National University of Entre Ríos – Bachelor's in Bioinformatics, thesis pending
EETP No. 383 Dr. J. I. Maiztegui – Technical Degree, Agricultural Production 2006 – 2011