Laura Junco — Senior Software Engineer for Data Visualization

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Data Visualization Engineer with over 7 years of experience in Front End Development and Data Visualization with D3.js, SVG, and modern JavaScript. Passionate about technology, open-access information, and design. I work with data visualization to convey accessible, useful, and understandable information for all.

EXPERIENCE

Senior Software Engineer – Data Visualization, Celonis

Apr 2022 - Ongoing | Munich, Germany

- Delivered front-end features for Celonis dashboard applications. Developing data visualization components and tools using **Angular, SVG, D3.js**.
- **Improved rendering performance by 5x** (30s to 6s) and ensured a stable performance regardless of the amount of charts in a dashboard by eliminating 100% of forced layouts during render.
- Led accessibility efforts for data visualization components including color contrast, screen reader, and keyboard navigation support. **Making our product WCAG A/AA compliant with the European Accessibility Act**.
- **Led the design, development, and launch of data visualization components** such as Histogram (read the blog post here) and scatterplot, unlocking critical use cases for our users.
- Continuously maintain and contribute to our **in-house charting library, used by 50+ developers** creating data visualization graphics across the company products. Making sure new requirements are met while maintaining a stable API and architecture.

Adjunct Professor, Universidad de los Andes

Jan 2022 - Jun 2022 | Bogotá, Colombia

- Algorithmic Thinking: Introductory course for design students to computational thinking and programming for interactive media.

Data Visualization Engineer, Comisión de la Verdad de Colombia

Jun 2020 - Mar 2022 | Bogotá, Colombia

- Created bespoke interactive data visualizations to help researchers make sense of demographic and testimonial data.
- Developed a reusable data visualization system for data analysis applications using open-source web technologies.
- React, D3.js, SVG, SQL, Leaflet

Digital Product Designer, Colombian Museum of Memory

Jun 2019 - Jul 2020 | Bogotá, Colombia

- Interface design for the digital products of the Museum of Memory of Colombia.
- Development of interactive art exhibitions focused on the history of Colombian armed conflict.
- Developed data visualizations with public data using SVG and D3.js
- PHP, D3.js, React, WordPress

Design Research Assistant, Universidad Nacional de Colombia

Feb 2019 - Sep 2021 | Bogotá, Colombia

- Created interactive experiences on reconciliation and peace-building in Colombia.
- Designed and developed a digital archive for textile documentation

Data Visualization Trainee, European Bioinformatics Institute

Jan 2018 - Jun 2018 | Cambridge, UK

- Developed dynamic and reusable data visualizations to help drug researchers with their in-silico analytics.
- Redesign and implementation of new web interface for the ChEMBL database access platform
- Python, Elastic Search, D3.js, Backbone.js

EDUCATION

2019 BA in Design – Universidad de Los Andes. Bogotá, Colombia

LANGUAGES

Spanish (native) | English (bilingual) | German (B1)