Shaina Rosell

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EXPERIENCE

Software Developer
O2 Planning & Design
📅 **07/2020 – Present**   📍 **Calgary, AB, Canada**

O2 integrates planning and design for cities and landscapes. As a multidisciplinary practice, O2 considers urban design, planning, finance, engineering, and ecology as fundamentally integrated and inseparable components of city and region building.

- Sole developer in the data analytics and engagement team, responsible for maintaining, debugging and improve existing web applications (full-stack development)
- Created web-based dashboard applications for clients and collaborated with diverse team of professionals including GIS Analysts to compile and present data in the app.
- Design and development of User Interfaces and collaborating with graphic designers for the design and implementation of web applications.
- Big Data analysis with tableau products and use of ArcGIS to prepare maps and compile datasets for spatial analysis.
- Research and develop data visualization and analysis tools.

Key Projects

- Internal Web Application for Engagement Data Analysis and Coding
  - Integrated machine learning concepts to help with suggesting classifications for coding qualitative data.
  - Use of d3.js library for creating interactive data visualization charts
- Web-based Dashboards for clients
  - Main Streets Metrics | City of Calgary
  - BMX Suncor Engagement Data Analysis | Suncor
- Web app platform that integrates ArcGIS Maps SDK for JavaScript for building mapping and spatial analysis applications for the web
  - Greener as We Grow | City of Edmonton
- Online Web Based Maps & Surveys for Public Engagement
  - Examples: bikesharetoronto
- Implemented the prototype of the Port Lands Story Stream App (formerly named Story Stream) which was O2's winning proposal submission for the 2021 "A new river innovation challenge" by Waterfront Toronto. Collaborated with urban planners, landscape designers to come up with innovative ways to present environmental data that will be collected on the development of the Port Lands Flood Protection Project which will build a new mouth for the Don River.

Skills

React.js · React Query · TypeScript · REST APIs · MongoDB · MERN Stack · Node.js · D3.js · jQuery · AJAX · Require.js · CouchDB · HTML · Cascading Style Sheets (CSS) · Tableau Products · ArcGIS Products · Full-Stack Development · Data Analysis · Data Visualization · Big Data

EDUCATION

2017-2022 | **Bachelor of Science, Computer Science**
University of Calgary | Calgary AB, Canada