

# Mathew Joseph

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## Summary

I am a technology professional with 5+ years of combined work experience in Canada, Fiji and Bermuda. I am a 2017 graduate of the University of Waterloo's Bachelor of Geography and Environmental Management program. After graduating with a degree specialization in Geomatics, I took on the role of Map Design Team Lead at the mapping technology startup 'Mappedin', where I led a team of 5-8 in the production and design of interactive spatial data. In 2020 I returned to Bermuda, where I currently work as a Portfolio Analyst at 'Convex Re'. I am now looking for the next chapter of my career within the tech industry - with a focus on the intersection of product, mapping and design.

I enjoy collaborating on products that deliver new insights and solve complex problems. I have worked in mostly agile environments using tools such as Slack and Jira. Please see my design portfolio [here](#). An overview of my skills is below:

- Design and Prototyping: Adobe Creative Suite (Illustrator, Photoshop), Sketch, UX Research tools
- Data Analysis: Power BI, Snowflake (SQL), ArcGIS, Carto, MapBox, Excel
- Development: HTML, CSS, Python
- Team Leadership: Hiring, training, workflow design, planning, project implementation
- Collaboration: Presentations, facilitating cross-team discussions, creative problem solving

I hold Bermudian, Canadian and British citizenships.

## Experience

### **PORTFOLIO ANALYST | CONVEX RE | JULY 2020 - PRESENT**

Convex is a Bermuda-based international specialty insurer and reinsurer founded in 2019 by Stephen Catlin and Paul Brand.

- Designed and built the first suite of analytics dashboards to enable underwriting teams at Convex to explore the pricing within their respective portfolios. This involved listening to actuaries and underwriters to define key questions about their portfolios and then building dashboards using tools such as Sketch, Python, Snowflake, Excel and Power BI. Insurance lines include Aerospace, US General Liability and Energy. Reinsurance lines include International Property and Casualty.
- Collaborated on an analysis of severe convective storm events across the continental US to understand future predictions for storm frequency and severity. The result of this analysis was a rate adjustment in our pricing model to account for a higher frequency of future storms than what our models originally indicated.
- Conducted spatial analysis and produced exhibits for various datasets ranging from natural catastrophe models to portfolios of yachts and infrastructure projects.
- Presented technological capabilities and challenges to various teams to advance data-driven culture. To manage an ever-evolving workflow and grow the number of underwriting teams with dashboards, I led dashboard demos and facilitate workflow conversations to streamline implementation.

## **MAP DESIGN TEAM LEAD | MAPPEDIN INC | MAY 2017 - FEB 2020**

Mappedin is a software technology startup based in Waterloo, Ontario. Mappedin offers a content management system and wayfinding software for large venues such as shopping malls, stadiums and hospitals.

- Managed a team of 5-8 in the design and production of interactive 3D digital maps for 400+ venues in more than 25 countries across web, mobile and directory applications. Over the 3 years at Mappedin I've hired and trained 15 interns, contractors and full-time map designers.
- Successfully collaborated with the Apple Maps team and internal stakeholders to build a data process and pipeline for shipping spatial data directly into the Apple Maps app. This project took 2 years and involved becoming a subject matter expert on Apple's Indoor Mapping Data Format (IMDF), training the mapping team on a new data transformation process, and implementing a project timeline to successfully deliver multiple venues to Apple. Together, we reduced our total venue export time by more than 50%.
- Participated in both in-house and on-site UX research and helped conduct user interviews in the field to help inform the effectiveness and development of our consumer-facing products.
- Spearheaded the development of our first Map Design process that focused on scalability, usability and accessibility. Integrated these guidelines into our workflow to improve both client satisfaction and product effectiveness.
- As a key stakeholder of our content management system, I worked closely with Product Management to help prioritize new product features to improve the usability of our software. It was also my responsibility to help identify, troubleshoot and escalate software related bugs and blockers for my team, thereby maintaining a steady output of work.
- I led a bi-weekly meeting known as the Mapping Community of Practice. This was a cross-team meeting involving Product Management, Map Design, Engineering and Customer Success to discuss mapping best practices, answer questions and drive key initiatives. Multiple key outcomes included a successful study of spatial data quality across major clients, a better map design process and multiple teams having an improved understanding of mapping challenges.

## **PROJECT DEVELOPMENT LEAD | SKYWARD INDUSTRIES | MAY 2015 - NOV 2015**

Skyward Industries is an aerial mapping and multi-media company based in Nadi, Fiji Islands. As a business of 8 people, we wore many hats as we worked together to handle multiple services. The primary business functions were drone mapping, ground surveying, filmmaking and wedding videography.

- Worked with the aerial mapping team to create 2D and 3D maps of mines, farms and construction sites using UAVs (unmanned aerial vehicles) and software such as ArcGIS and Pix4D.
- Assisted the media team in filming and creating content across the country for clients such as Fiji Tourism, Investment Fiji and overseas production crew Radical Orange.
- Led the development of an experimental project called 'Skyview Fiji' - an immersive aerial virtual tour product. I was able to determine the technical requirements and workflow to progress from an idea to an MVP.

## Education

### **FURTHER LEARNING | 2017 - PRESENT**

- Udemy: DA-100 – Analyzing Data with Microsoft Power BI (2022)
- The Institutes: ARE-144 – Reinsurance Principles and Practices (2021)
- Udemy: Data Analysis with Pandas and Python (2020)
- Code Academy: Build Websites from Scratch Intensive Program (2018)

### **BACHELOR OF ENVIRONMENTAL STUDIES | 2017 | UNIVERSITY OF WATERLOO**

- Major: Honours Geography and Environmental Management (Co-op) – Standing: Excellent (85%)
- Degree Specialization: Geomatics

### **INTERNATIONAL BACCALAUREATE | 2012 | KODAIKANAL INTERNATIONAL SCHOOL**

- Higher Level Subjects: Geography, Physics, English, Fine Art
- Standard Level Subjects: Math, French

## Extracurricular

### **ACTIVE SPORTS**

- Rock-climbing: I love deep water soloing (bouldering over water) and I enjoy introducing new people to the sport.
- Ultimate Frisbee: I've played ultimate for 10+ years and play with Bermuda Ultimate every weekend.
- Scuba Diving: I have a PADI Open Water Diver's license and have dived in Bermuda, Fiji and Iceland.
- Jetpack Flying: I am training to become a Jetpack pilot with Gravity Industries in the UK.

### **VOLUNTEERING**

- Beach Cleanups: I like taking care of my environment and actively take part in group cleanups.
- Workshops: I have run workshops on career options in the field of geography and drone technology for students at the University of Waterloo.
- Lionfish-spearing: I go freediving to spear lionfish – an invasive and poisonous (but tasty) fish that is heavily damaging Bermuda's reef ecosystems.