Crisis Connect

Team: Women of the West Coast (WWC)

Women Who Code Hackathon for Social Good 2023

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Meet the Team

Crisis Connect

Women of the West Coast (WWC)

Recent tech bootcamp graduates from Vancouver, BC, Canada

Amy Nagelberg
Web Developer

Grace Lee
UX Designer
(Team Lead)

Rachel Liao
Data Scientist

Supreet Kaur
Web Developer

Challenge & Solution Overview

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Challenge

Increasing natural disasters and extreme weather events are straining BC relief efforts

Solution

A platform that offers personalized real-time aid, differing from standard government relief programs

Data Analysis

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1900s - 2021 Data Sets

Annual Natural Disaster Trends

People Affected by Natural Disasters

Natural Disasters Risk Analysis

Data Sources: Our World In Data & WorldRiskReport

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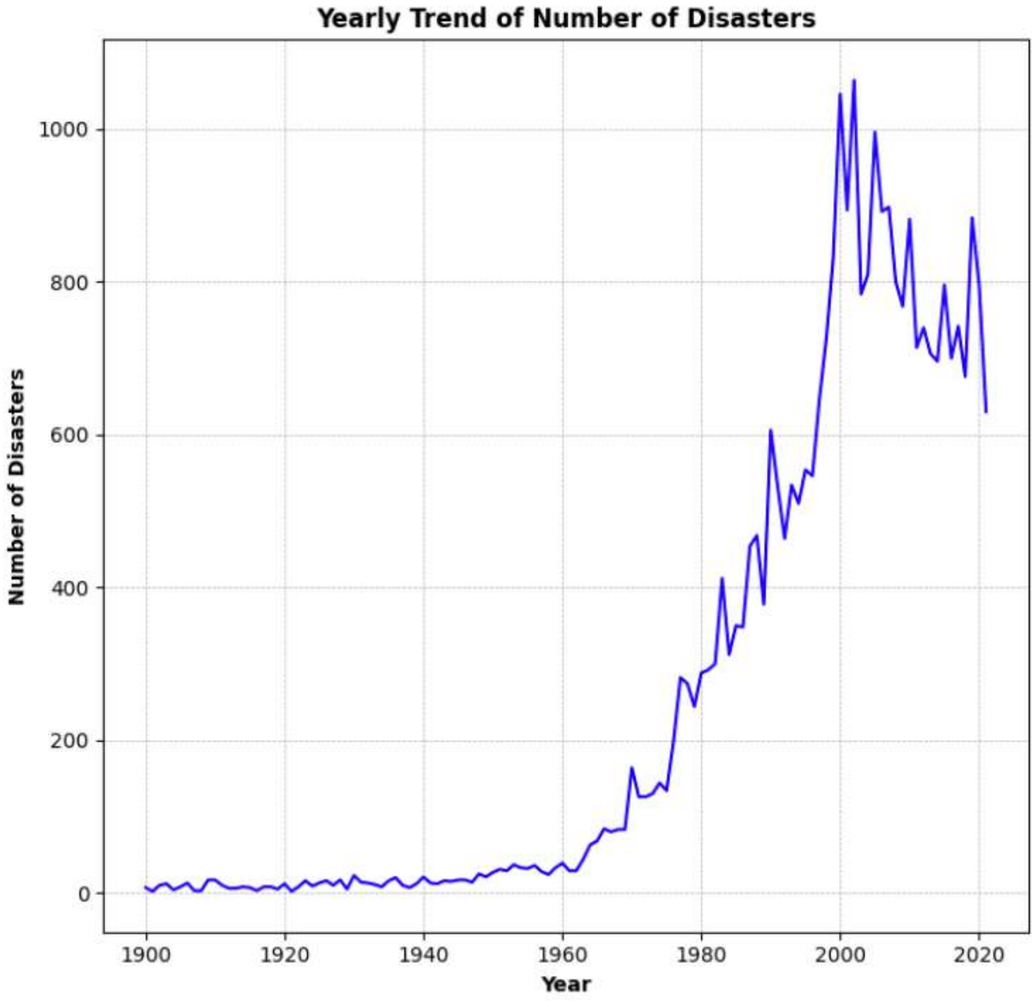

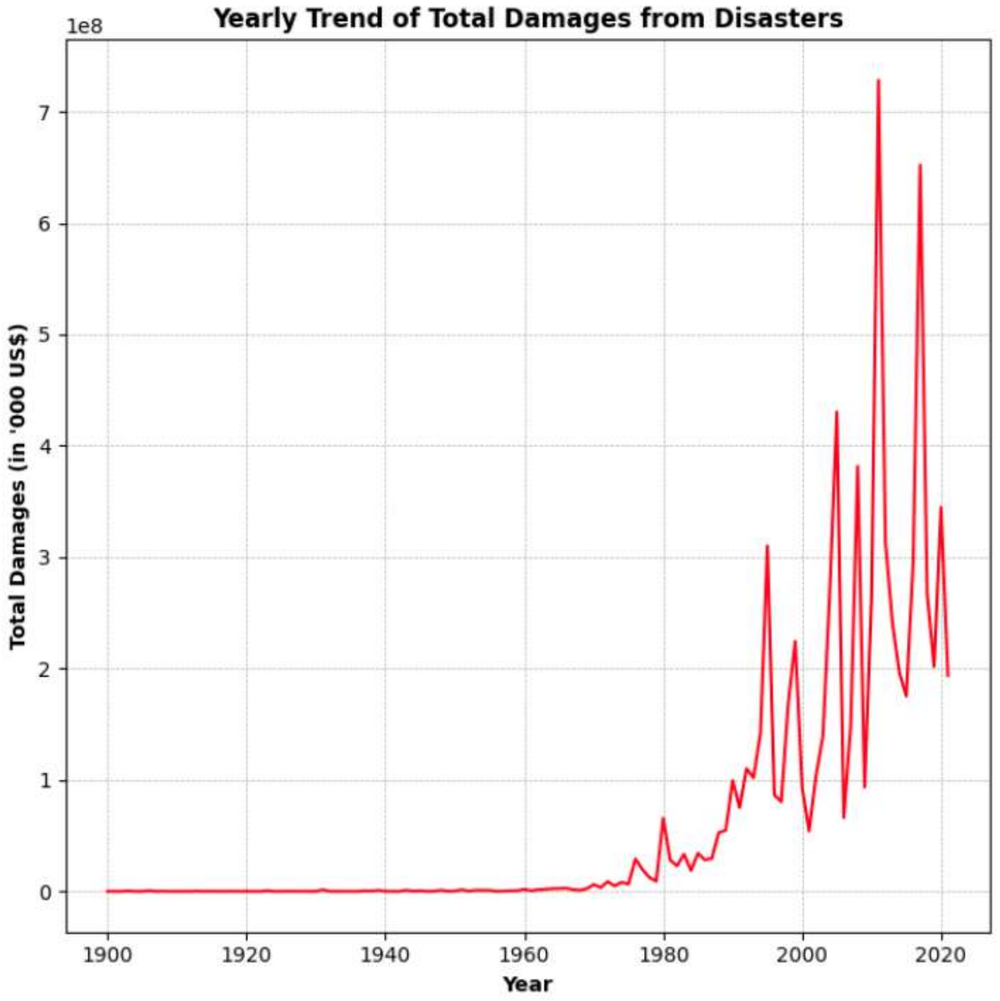

Number of disasters have surged since the mid-1900s, peaking in the early 2000s

Economic damages fluctuated, hitting severe levels in the late 1900s and early 2000s

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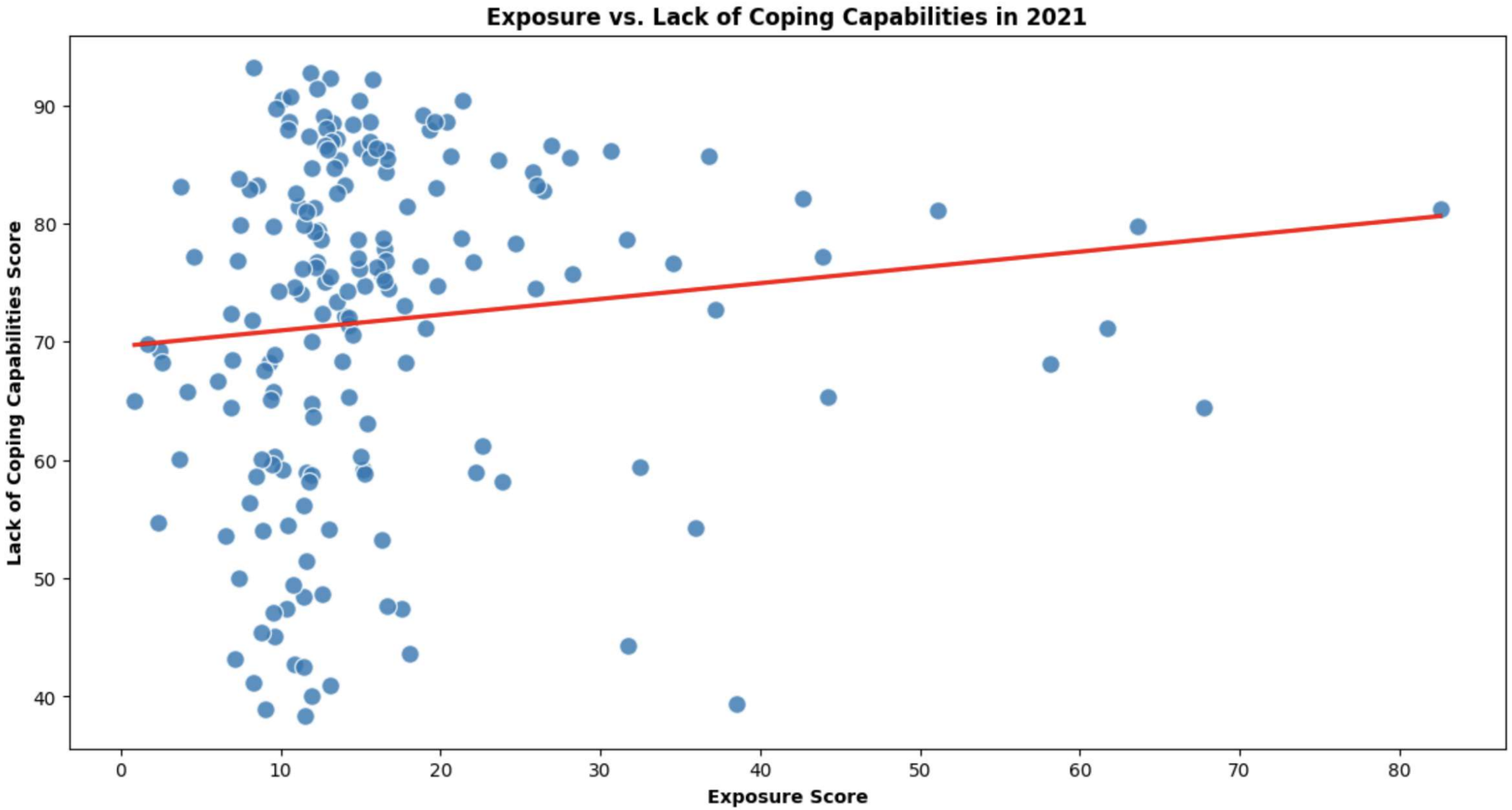
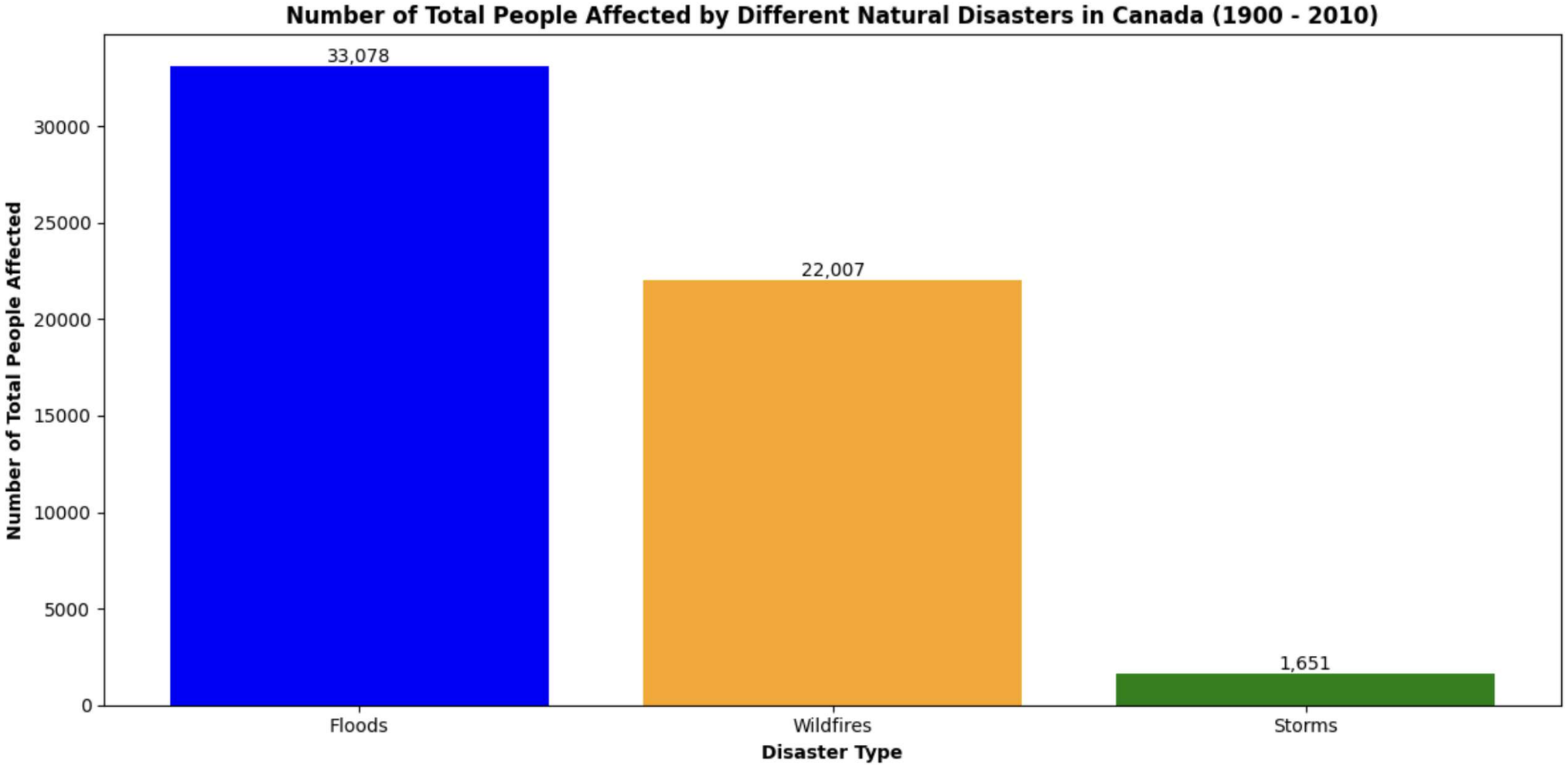


Disaster-prone regions struggle more with recovery, highlighting a notable increase in vulnerability with increased disaster frequency



Between 1900 and 2010, natural disasters in Canada triggered widespread crises

Our Platform: Crisis Connect

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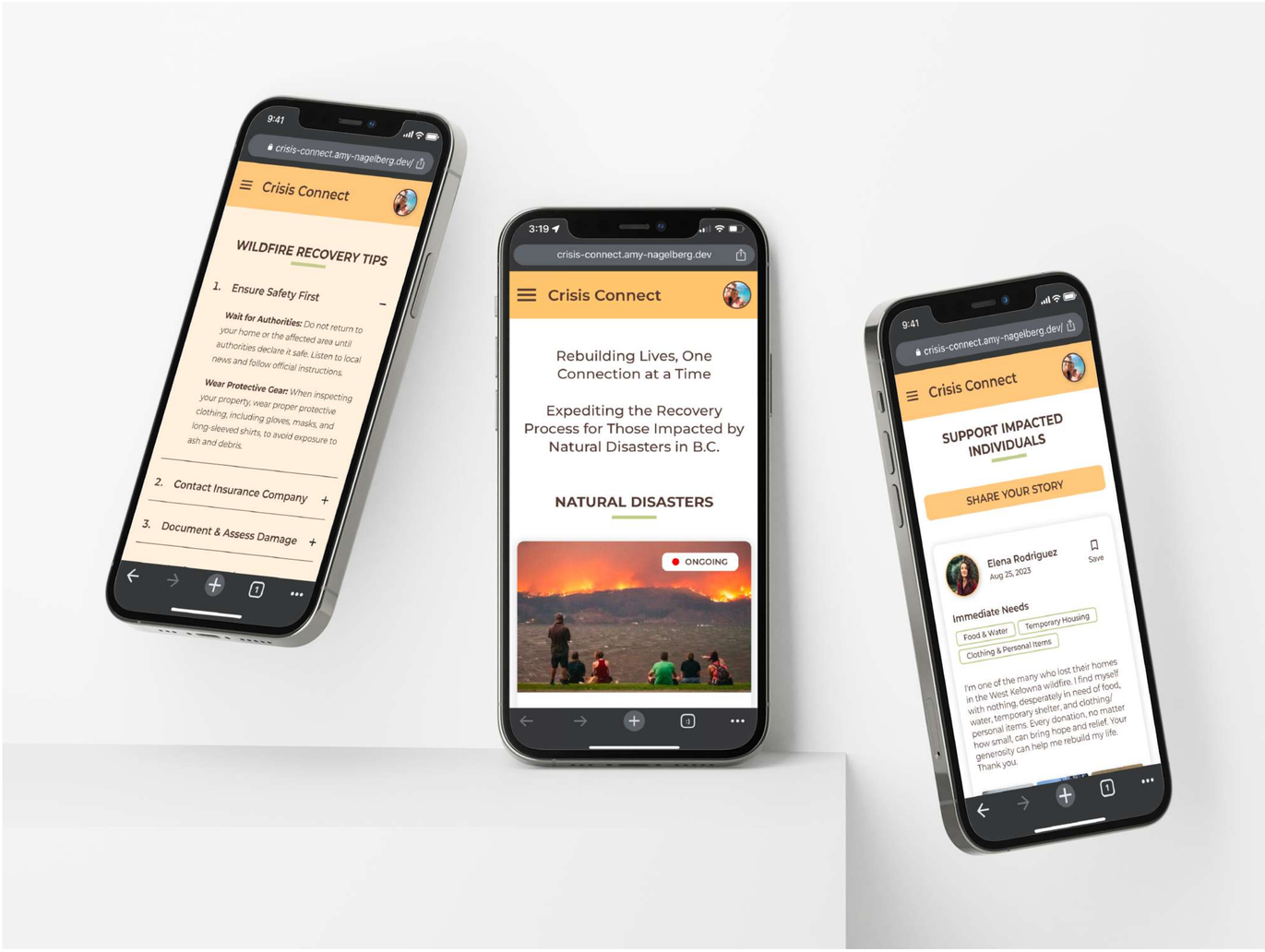
- Web-platform optimized for mobile devices (430px x 932px)
- Aid individuals impacted by natural disasters in BC (our target user)
- Interactive community platform
- Immediate access to tailored assistance, beyond traditional government relief programs



Live Demo

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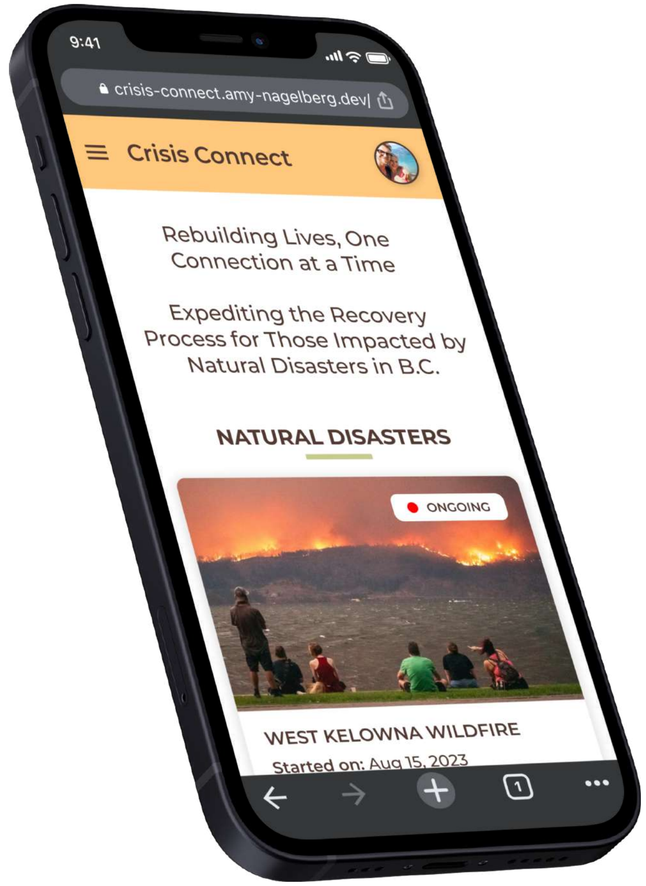

Tech Stack

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Data Science

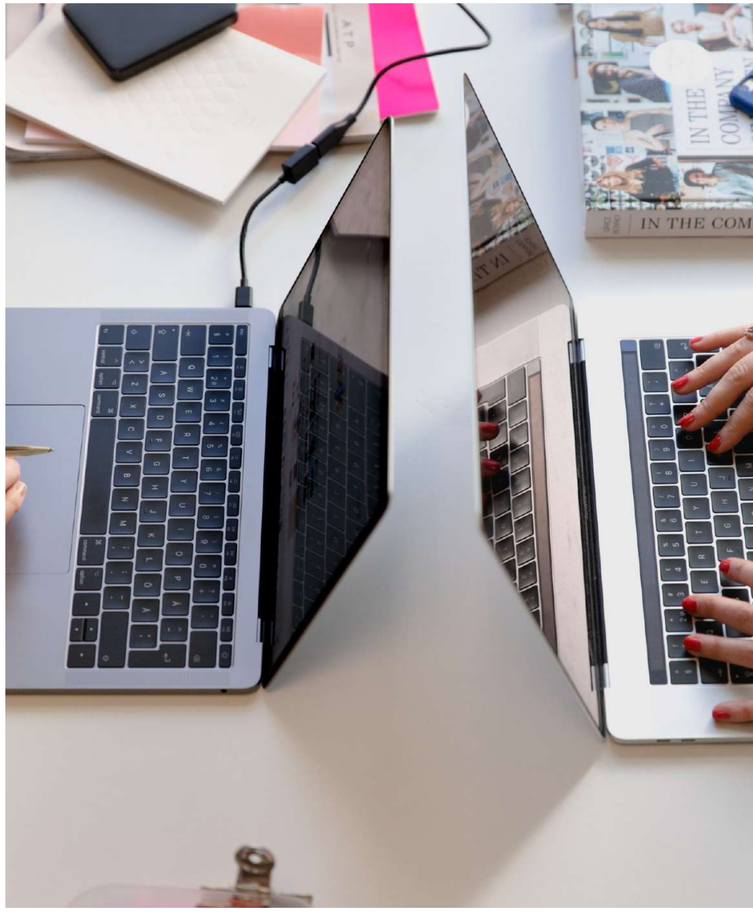
- Python (Jupyter Notebook)
- Data manipulation with Pandas
- Data visualization with Matplotlib and Seaborn

UX Design

- Figma

Web Development

- Front-end application built with React.js
- Styling with raw SCSS
- Deployment through Netlify



Key Learnings

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- Understanding Team Dynamics
- Strong Communication
- Effective Time Management

Next Steps

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- Implement Reporting Function
- Develop Additional Features
- Translate to Desktop View

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Thank You

Women of the West Coast

Amy Nagelberg
Web Developer

Grace Lee
UX Designer
(Team Lead)

Rachel Liao
Data Scientist

Supreet Kaur
Web Developer

Crisis Connect

Visit our GitHub for more project details!

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References

WEB DEVELOPMENT

Live Prototype (Webpage):
> https://crisis-connect.amy-nagelberg.dev/

GitHub
> https://github.com/anagelberg/crisis-response

DATA SCIENCE

GitHub (Data Science Jupyter Notebooks available on GitHub as well)
> https://github.com/anagelberg/crisis-response/tree/main/public/data-analysis

1. **All Natural Disasters (1900-2021):**
   - > https://crisis-connect.amy-nagelberg.dev/data-analysis/yearly-trends
   - Original Data Source: Our World in Data
2. **Decadal Average Natural Disasters Data (1900-2010)**
   - > https://crisis-connect.amy-nagelberg.dev/data-analysis/people-affected
   - Original Data Source: Our World in Data
3. **Global Disaster Risk Index Time Series Dataset**
   - > https://crisis-connect.amy-nagelberg.dev/data-analysis/world-risk-index-natural-disasters.html
   - Original Data Source: WorldRiskReport

UX DESIGN

Figma Prototype:
> Click here