Gurkirat Panesar

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Education

University Of Waterloo   **2022 – Current**
Bachelors of Environmental Studies, Geomatics Co-op   *Waterloo, ON*

Relevant Coursework: Computer Science 1 (Racket), Elementary Algorithm Design & Data Abstraction (C), Macroeconomics (R), Probability (R), Enviromental Apps of Data Mgmt and Stats (Excel), Designing Effective Maps (QGIS), Intro to GIS (ArcGIS), Geospatial Data Science (Excel, ArcGIS), Earth from Space Using Remote Sensing (PCI Geomatica, Python)

Technical Skills

Languages: JavaScript, Typescript, Python, C, C++, Racket, R
GIS/Geospatial Analysis: QGIS, ArcGIS Pro/Online, ArcMap, AutoCAD
Developing Experience: Front-End (React, Next.js), Back-end (NodeJs, Express), Data Analysis (Pandas, Matplotlib, Numpy, SciPy, R), Database (MongoDB, MySQL)
Markup & Styling: HTML, CSS, Bootstrap, React Bootstrap, Styled Components
Developer Tools: Git, Azure DevOps, Figma, Adobe XD, Netlify, Heroku

Experience

MCAP Financial Corporation   **Jan 2022 – Apr 2022**
Jr. QA Developer | *Javascript, Cypress.js, Postman, JMeter, Azure DevOps, MySQL*   *Waterloo, ON*

- Collaborated with cross-functional Agile teams to perform quality assurance evaluations, ensuring customer requirements were met with no defects
- Created, executed, and maintained automated test suites for various mortgage application portals using Cypress, effectively tracing issues that arose during the development process
- Implemented automated testing tools through CI/CD pipelines for scheduled automation tests, significantly reducing business hourly cost of manual regression/functional testing by $40+/hour
- Developed comprehensive test plans, scenarios, and test cases for web application testing
- Conducted API and performance tests using Postman and JMeter to ensure optimal system functionality and performance
- Contributed to the UI design decisions for the re-branding of XMC Mortgage Client Portal to MCAN Home through discussions with software and business team

Amans Henna Creations | Link Git   **Jan 2020 – May 2020**
Web Developer (Co-founder) | *React.js, Next.js, EmailJS, Styled Components, Netlify, Figma*   *Brampton, ON*

- Designed and developed business landing page to allow henna artist to showcase her designs and services; amassed 1000+ returning customers
- Used React framework to develop reusable UI components and a responsive layout
- Implemented fade animations on UI elements as users scroll creating a dynamic and lively browsing experience for visitors
- Implemented a contact form using EmailJS API to allow website visitors to send inquiries to the henna artist directly on the website
- Integrated NextJS to significantly improve the SEO of the landing page; helped henna artist gain exposure and amass 10,000+ new instagram followers

Projects

Personal Website | *React.js, Next.js, React Bootstrap, Styled Components, Netlify* Link Git

- Developed personal website to showcase my work experience and projects
- Used Styled Components to develop UI wave animations and appealing UI components

Nursing Workforce Spatial Data Analysis | *ArcGIS, QGIS, Jupyter Notebook, Python, Matplotlib, Pandas, Numpy, Seaborn* Git

- Conducted thorough spatial analysis on Canadian nursing workforce data using ArcGIS.
- Extracted valuable insights from diverse datasets and visualized trends through data manipulation and visualization techniques.

Data Analysis Portfolio | *ArcGIS StoryMaps* Link

- Used ArcGIS Storymap to create a centralized location to display all my Data Science and GIS projects and experience in greater detail.

Polynomial-Graphing-Tool | *Python, Matplotlib, Numpy* Git

- Developed a graphing tool that allows users to graph a polynomial and its derivatives.
- Used PyInquirer to prompt the user for information about the polynomial equation.