

GURKIRAT PANESAR

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Education

University Of Waterloo, Waterloo, ON

2022 – Current

Bachelors of Environmental Studies, Geomatics Co-op

GPA: 3.52/4

Relevant Coursework: Computer Science 1 (Racket), Elementary Algorithm Design & Data Abstraction (C), Macroeconomics (R), Probability (R), Designing Effective Maps (QGIS), Intro to GIS (ArcGIS)

Technical Skills

Languages: JavaScript, Typescript, Python, C, C++, Racket, R

Geospatial Analysis: QGIS, ArcGIS

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 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](#)

2020 – Current

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.