

# IVAN PENALES

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## PROJECTS

### Graph-viz (graph algorithm simulator)

javascript, html, css

🔗 ipenales.com/graph-viz

- Create custom or randomized graphs.
- Visualize the execution of breadth first search or depth first search.
- From this project i developed an understanding of the javascript event loop due to the amount of asynchronous programming and DOM manipulation that this project required.

### Weather app

react, django, apache2, bootstrap

🔗 ipenales.com/weather-app

- Get real-time weather data of a city in openweather api and neatly display it in a table.
- Users can create an account to create data-sets in order to save data. Data-sets can contain weather data for a collection of cities.
- I learned the basics of networking and the rest api.

### Booktracker

android, java, firestore

- App that will track owned, borrowed, and lent books.
- I am responsible for majority of the asynchronous task, requesting logic and i also integrated continuous integration into the project.
- I learned how to work with a team and use scrum practices to organize and coordinate our work.

### RISC-V to web assembly transpiler

risc-v

- This app will translate a subset of RISC-V instructions to web assembly source code.
- This project was very involved in translating the binary representation of a RISC-V instructions.

### Portfolio

javascript, html, css, aws

🔗 ipenales.com

- My personal portfolio that contains a list of relevant projects, including the ones mentioned above.
- Each project is presented in an easy to use user interface that provides or links all the necessary information about the project.
- I learned how to use cloud services that are offered by aws such as ec2 and route53.

## EDUCATION

### B.sc Computer Science

University of Alberta

📅 September 2019 – current

CGPA: 3.4

MacEwan University

📅 January 2017 – April 2019

## SKILLS



## HACKATHON

### HackED 2020

- Worked with a team to create a web-app called habit-tracker which encourages the user to keep pursuing their habits.
- I learned how to use different Virtual Machine instances in this hackathon.
- I helped my teammates understand react js and how to setup the front-end and the backend.