

# IVAN PENALES

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navibryle

## 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.
- learned how to create/manipulate svg's in html and also the javascript event loop.

### 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.
- 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 implemented continuous integration into the project.
- 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 representations of 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.
- 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 2018 – April 2019

### Expected graduation time

April 2022

## SKILLS



## HACKATHON

### HackED 2020

- Worked with a team to create a web-app called habit-tracker which aims to encourage the user pursue their desired habits.
- Learned how to use different Virtual Machine instances.
- Helped my teammates understand react js and how to setup the front-end and the backend.