

# HADI AL HAKEEM

## PORTFOLIO

### SUMMARY

Software engineer with a focus on backend skills and technologies looking to expand my skill set.

### EDUCATION

**BMath**  
University of Waterloo  
Jun 2025

### CONTACT

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[Github](#)

### SKILLS

#### Languages

- Python
- JavaScript
- HTML
- CSS

#### Libraries

- Django
- Flask
- Bootstrap
- TensorFlow

#### Databases

- PostgreSQL
- DynamoDB

#### Other

- AWS
- Git
- CircleCI
- Postman

### WORK EXPERIENCE

#### Software Developer Intern | [Atila Tech](#)

*Dec 2019 - Present*

- Developed software using python to encrypt data and store it securely using AWS DynamoDB.
- Created unit tests to catch any failures before deployment.
- Used NLP to improve Atila's recommendation algorithm by considering more relevant factors.
- Worked with React on the frontend to make simple changes to components and fix bugs.
- Performed email AB testing to methodically determine which email templates to use.
- Wrote a [blog post](#) about my internship which covers a few projects I worked on, as well as some technologies I used.

### PROJECTS

#### Text Similarity

[View Project](#) | [Code](#)

- Created a web app that can compute the semantic similarity between texts.
- Designed and hosted my own API that is consumed by the frontend.
- Utilized POST requests to communicate between the client and the API.

#### Encryption Library

- Implemented the Advanced Encryption Standard and SHA256 hashing from scratch.
- Used **object-oriented** programming principles to build modular code that is easy to update.
- Thoroughly tested functionality and fixed any bugs that appeared.

#### My Games

- This is a repository containing some games that I have created using pygame.
- I have recreated Snake, and created some of my own games for fun!
- Built the structure of each game using classes and object-oriented principles. This allows me to reuse many classes across different games.