

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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SKILLS

Languages

- Python
- C
- JavaScript
- HTML
- CSS

Libraries

- React
- Django
- Flask

Databases

- PostgreSQL
- DynamoDB

Other

- AWS
- Git
- CircleCI
- Heroku
- Netlify
- Postman

WORK EXPERIENCE

Software Developer Intern | [Atila Tech](#)

Dec 2019 - Present

Python, Javascript, Django, React, AWS

- Led the design and implementation of the payment acceptance system for scholarships.
- Developed software to encrypt and store data 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 add new components and features.
- Performed email AB testing to 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

WikiMe

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

Python, Javascript, Flask, React, Netlify, Heroku

- Web app that allows you to quiz yourself on **any** Wikipedia article by generating a quiz based on chosen article.
- Created good looking components using ChakraUI.
- Used tf-idf in the process of generating the questions.
- Deployed backend to Heroku and frontend to Netlify.

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

[Code](#)

- 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.