# Yassine Khayati

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## EDUCATION

**Bowdoin College,** Brunswick, ME
B.A in Computer Science and Digital Computational Studies (DCS). Minor in Psychology **May 2025**
*Relevant Coursework:* Data structures, Algorithms, Foundations of Computer Systems, GPA: 3.88/4.00
Social & Economic networks, Theory of Computation, Computational Creativity

**Vrije University,** Amsterdam.
Exchange Semester **Jan 2024-June 2024**
*Relevant Coursework:* Software Design, Security and Safety Engineering, Computational Intelligence.

## SKILLS

**Programming:** Python , Java , C, Assembly, HTML, CSS, JavaScript ,SQL,
**Tools:** Linux/Unix, Git, Pandas, PostgreSQL, DynamoDB, Pytest, Unittest, PyTorch (),
**Frameworks:** React, Bootstrap, Flask, serverless, Pygame

## WORK EXPERIENCE

**Wattnow,** *Tunis, Tunisia.*
Software Engineering Intern- Backend engineering **June 2024 – August 2024**

- Developed a Python script that validated control device statuses against user-set schedules (automatic or astro) by integrating with DynamoDB using Boto3 and generating detailed discrepancy logs.
- Utilized tools and frameworks such as Pandas, datetime objects, Serverless framework, and timezonefinders to ensure consistent performance of the feature across 500 sites in 4 different continents.
- Developed a testing framework with 12 unit tests using Pytest and Unittest, simulating Boto3 interactions and covering diverse data scenarios and time zones. Enabled seamless code changes, enhancing reliability and maintainability.
- Collaborated with senior developers to deploy the script in a serverless environment, contributing to the reliability of energy management systems.

## PROJECTS

**Poetry Generator** (Python, Flask, NLP, Huggingface, Pytorch, JavaScript) **December 2024 – March 2025**
*Link for deployed project: https://shorturl.at/phVxV , GitHub Repo Link:* https://shorturl.at/EG0MS

- Developed a web application that generates unique existentialist poetry using a custom fine-tuned GPT-2 language model
- Implemented user input features to influence style and content of generated poems and integrated text-to-speech functionality
- Built a poetry gallery to save and showcase previously generated poems using SQL Alchemy for data persistence

**WebTracker Chrome Extension** (JavaScript, HTML/CSS, Chrome, extension API) **February 2024 – March 2024**
*Link for deployed project: https://shorturl.at/ut5c9, GitHub Repo Link: https://github.com/Kintama1/tracker*

- Developed a Chrome extension that tracks and visualizes time spent on websites to promote productivity
- Implemented real-time tracking using Chrome Extension APIs with a minimal-impact background process
- Designed an intuitive UI with interactive visualizations including donut charts and detailed list views

**Flashcard Reading Game** (Java, PostgreSQL, JdbURL) **February 2024 – March 2024**
*GitHub Repo Link: https://shorturl.at/GFvbW*

- Designed and implemented the user database, user profile, and login functionality using Java and PostgreSQL, efficiently connecting the application to a remote database via JDBC URL for user login.
- Represented the architecture of the game design using UML ensuring a clear and guided implementation

**Personal portfolio website for more projects:** https://ykhayati.netlify.app/

## Leadership Experience

**Middle Eastern Northern African Student Association (MENASA),** Brunswick, ME
*Founder and Co-President* **March 2023 – Present**

- Lead the organization of 3 cultural events that spotlighted the rich MENA culture to the Bowdoin student body.
- Established a platform for cultural sharing and community building for MENA-identifying students on campus.

**Other:** TA for CSCI 2200 (Algorithms) ,DCS2350/CSCI2750 (Social & Economics networks), CSCI 2330 (Foundation of computer systems), DCS 1500 (Introduction to computer science)
**Interests:** Reading, Writing blogs, soccer (playing & watching!), Travel, learning languages, reading/watching Japanese media