

# ADILET BAIMYRZA

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## EDUCATION

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**Bachelor of Computer Science**, University of Lodz

**Expected Graduation - September 2024**

**Programming Coursework:** Object-Oriented Programming, Advanced Algorithms, Web Applications, Software Engineering, SQL Databases, Architecture of Computer Systems, Programming and Data Structures, Mathematical Analysis, Methods of Probability and Statistics, Introduction to Java, Microcontrollers Programming.

## PROJECTS

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**Pastebin Clone.** ([GitHub](#)) **July, 2023 - August, 2023**

- Developed scalable full-stack clone of Pastebin.com using Flask RESTful API and React, which allows users to share large amounts of text.
- Implemented caching mechanism using Redis to reduce response times and eliminate unnecessary database and blob storage queries.
- Ensured scalability and robustness of the app using Azure Blob Storage and AWS RDS to provide reliable data storage solutions.
- Programmed hash generation mechanism using base64 hashing to create 8-character URL-safe hashes to ensure each paste has a short unique hash.

**Earthquake Data Visualization.** ([GitHub](#)) ([Live](#)) **July, 2023 - August, 2023**

- Developed an Earthquake Data Visualization Dashboard using Dash low-code Python framework and Plotly library, which allows you to observe and analyze more than 8000 earthquakes from 1960 till 2023.
- Integrated a custom online maps provider Mapbox to design aesthetically appealing dark-themed map, which accentuated the representation of earthquake occurrences.
- Cleaned and preprocessed data obtained from US Geological Survey using Pandas and Numpy libraries to ensure consistent and reliable dataset for visualization.
- Received honors for the WebApp, which was selected to be displayed on the official Plotly.com website as a notable example in the Geospatial Category. ([See on website](#))

**Movie Watchlist.** ([GitHub](#)) ([Live](#)) **July, 2023**

- Designed and implemented a Movie Watchlist web application using HTML, CSS, and Flask, which allows users to effortlessly create and manage their personalized movie collections.
- Implemented Flask-WTFforms to ensure data validation and CSRF protection.
- Connected with MongoDB Cloud to ensure scalability of data storage and developer-friendliness.
- Utilized industry-standard SHA-256 hashing algorithm to securely store passwords in the database.

## TECHNICAL SKILLS

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Python, JavaScript, C++, React, Node.js, Flask, REST API, Git, HTML5, CSS, Pandas, Unittest, Matplotlib, MySQL, PostgreSQL, MongoDB, Bash.

## CERTIFICATES

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- Lyft Back-End Engineering Virtual Experience Program (Python) - *Forage.com* ([Certificate](#))
- The Ultimate MySQL Bootcamp: Go from SQL Beginner to Expert - *Udemy.com* ([Certificate](#))
- Web Developer Bootcamp with Flask and Python - *Udemy.com* ([Certificate](#))

## LANGUAGES

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- English - C1
- Polish - C1
- Kyrgyz - Native