

# Batu Engin

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## EDUCATION

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### University of Michigan

*Bachelor of Science in Engineering in Computer Science*

Ann Arbor, MI

*Expected May 2025*

- GPA: 3.98
- Relevant Coursework: Web Systems, Data Structures and Algorithms, Computer Organization, Foundations of Computer Science, Statistics and AI, Discrete Mathematics, Multivariable Calculus, Linear Algebra, Introduction to Probability and Statistics
- Awards: William J. Branstrom Freshman Prize, Dean's List, University Honors

## EXPERIENCE

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### Machine Learning Intern

*Habber Tec*

June 2023 - Aug. 2023

*Madrid, Spain*

- Engineered a time series model using **Sci-kit Learn** in Python to predict a transformer's failure probability.
- Applied feature importance, data filtering, and aggregation with Pandas, heightening the accuracy up to **92%**.
- Constructed a back-end server using **Django** for communication between a LLM virtual assistant and employees.

### Machine Learning and Computer Vision Intern

*Mad Street Den*

June 2021 - Aug. 2021

*Redwood City, CA*

- Created a CNN classifier using PyTorch, trained on web-scraped images of clothes to categorize clothing items and provide labels in a database of 300,000 images.
- Built an intelligent search engine, utilizing **Sci-kit Learn**, for classifying search text into clothing labels.
- Capitalized on **Cosine Similarity** and the **Spacy NLP library** before classifying the text to enhance the accuracy of items retrieved upon search.

## PROJECTS

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### PixelCode | *Python, Rust, Django, React, Google Drive API*

Nov. 2023 - Present

- Implemented an algorithm to encode code to an image and decode with Rust, transforming the way in which one can share, store and visualize code.
- Developed a full-stack web application with Django and **React**, where one can upload to a repository.
- Communicated with the Google Drive API to store images on the cloud.

### Image Colorization | *Python, Tensorflow, Numpy, Pandas*

Jan. 2023 - Apr. 2023

- Created an application utilizing CNNs, through the **TensorFlow** library, to colorize black and white images.
- Leveraged GANs, assembling the Generator and Discriminator classifiers to provide a more exact solution.
- Collaborated with team members and leaders, modifying technical parameters of the model, for instance, the batch sizes and epochs to improve the accuracy of colorization by **20%**.

## TECHNICAL SKILLS

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**Languages:** Python, C++, Rust, JavaScript, HTML, CSS, MATLAB

**Frameworks and Libraries:** React, Node.js, Django, Numpy, Pandas, Sci-Kit, Tensorflow, PyTorch, MongoDB

**Developer Tools:** Git, VS Code, Bootstrap

## ORGANIZATIONS

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**Quantitative Investment Society** | *Quantitative Researcher*

Nov. 2023 - Present

**Michigan Data Science Team** | *Software and Machine Learning Engineer*

Jan. 2023 - Present

**Idatis** | *Software Engineer Intern*

Dec. 2020 - Feb. 2021