

OMAR TALL

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OBJECTIVE

Computer Science student at Boston College with strong programming and machine learning experience. Strong interest in developing skills in the areas of programming, software development, and machine learning. Demonstrated ability to deliver results through research projects and technical implementations. Proven track record in OCR modeling and data processing, seeking a role in Software Engineering.

EDUCATION

Boston College

B.A. in Computer Science, Computer Science

August 2022-May 2026

Chestnut Hill, MA

WORK EXPERIENCE

FormosanCorpora

Research Assistant

June 2024-Present

Chestnut Hill, MA

- Developed and enhanced OCR models using Python and machine learning techniques to process and digitize endangered language documentation
- Implemented XML formatting and data processing pipelines to organize and structure over 500 digitized text files
- Created computational tools for language analysis using natural language processing techniques
- Built and optimized machine learning models to improve transcription accuracy and efficiency

TeacherLists

Data Processing Specialist (Remote)

June-September 2023

Wrentham, MA

- Engineered data processing workflows to ensure data quality and accuracy across the platform
- Developed automated solutions for monitoring and validating data entries across 44 company databases
- Collaborated with cross-functional teams to optimize data organization and collection methodologies

PROJECTS

CMULAB OCR Implementation for Formosan Languages

June 2024-Present

- Engineered and fine-tuned OCR models achieving 3.6% character error rate for digitizing 17th-century Formosan texts
- Developed data processing pipelines that reduced transcription time by 52% through automated OCR preprocessing
- Implemented machine learning models to handle non-standard characters and diacritics in historical documents
- Built testing frameworks to evaluate and compare model performance across different OCR implementations
- Optimized model accuracy through iterative fine-tuning and validation with hand-corrected training data

RELEVANT COURSEWORK

Boston College

Student

August 2022-Present

- Java and Data Structures, Computer Systems, Computer Organization and Lab, Databases, Algorithms

SKILLS

Programming Languages: Python, JavaScript, HTML, CSS, C, Verilog, Technologies: Machine Learning, OCR, Natural Language Processing, Data Processing, Developer Tools: Colab, Jupyter Notebook, GitHub, Terminal, Additional Skills: Data Analysis, Algorithm Development, XML, Excel