

# CS410

Team T5-CS

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## Objective

- Make site AI-friendly (JSON-LD)
- Improve navigation + UX
- Enable intelligent search

## My Contribution

- Structured course data
- AI search assistant
- Standardized course pages
- Course Catalog
- Update CS Website

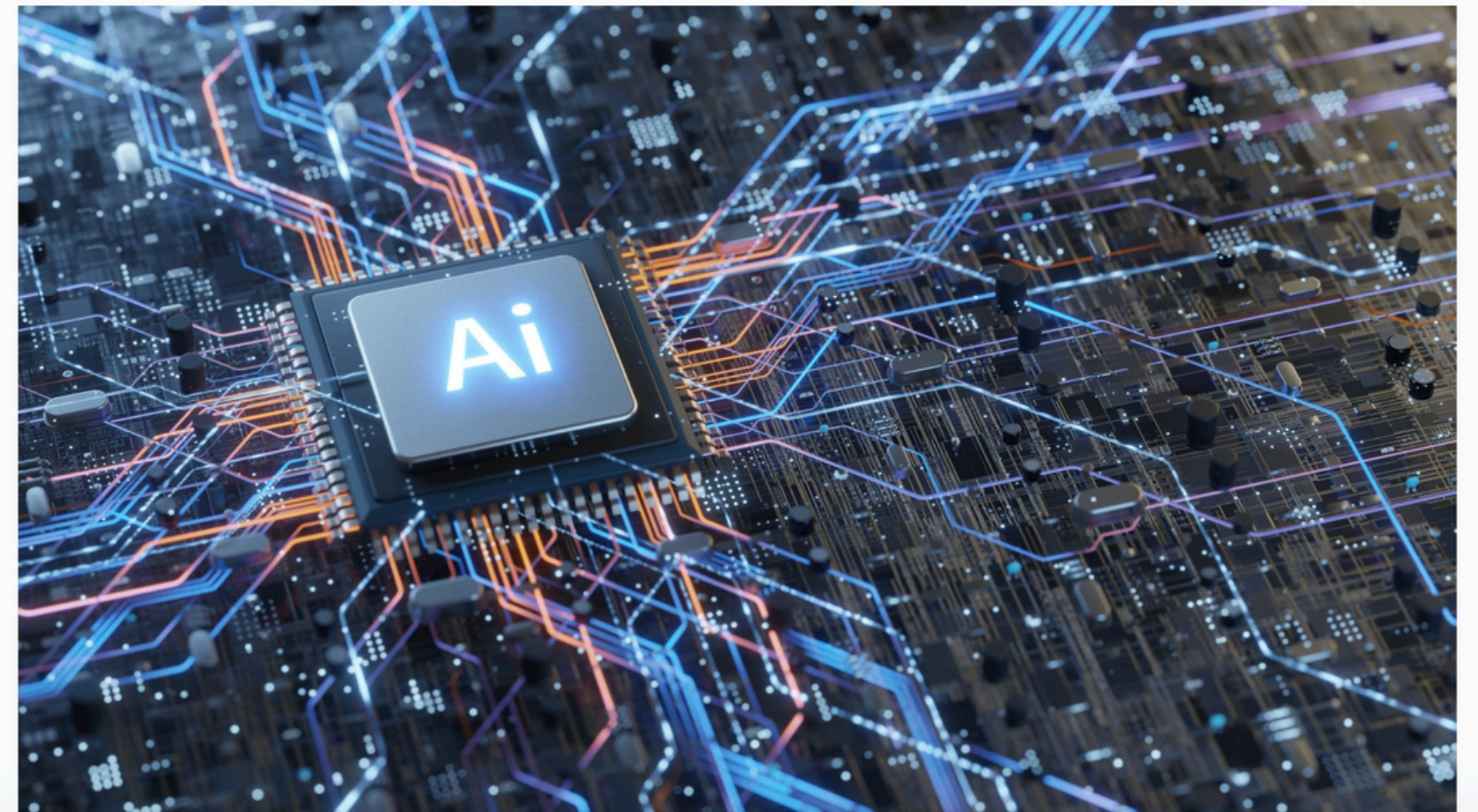
# CSTOUR

## Website Modernization

### Chimera

Chimera is a high-performance computing (HPC) cluster provided by UMass Boston Research Computing. It supports advanced workloads such as data analysis, machine learning, simulations, and other compute-intensive research tasks.

Chimera is designed for distributed computing and includes a mix of compute resources, including GPU-enabled nodes for accelerated workloads.



GPU acceleration supports modern workloads including AI, simulation, and parallel computing.

# T-SHAPED SKILLS



Frontend/CSS

Git

Debugging

LLMs

System Design



**Deep Specialization**  
Structured Data + AI Systems

**Clone And Build Guide** –  
Initial guide to get the Git  
repo setup with Jekyll

**Updates Page (Main Hub)** –  
Central project progress  
and improvements page.

**Broken Link Remediation** –  
Audited and repaired  
broken links across the site.

**AI Assistant Prototype** –  
Search assistant for the CS  
website using grounded  
internal results.

**Chimera** – Research cluster  
for HPC computing at UMB

**Course Catalog  
Modernization** –  
Standardized course pages  
and improved metadata.

#### CS Website Updates

This page documents the project's clone-and-build workflow, including the steps needed to pull the repository, install dependencies if needed, and build the CS website so it can be tested locally or deployed in the project environment.

cs.umb.edu

#### Broken Links Repaired

Source Page: /admissions/ Broken URL: https://admissions.umb.edu/freshman-students/apply Fixed URL: https://www.umb.edu/admissions/first-year-students/apply/

cs.umb.edu

#### Search Assistant

A lightweight on-site search assistant for the UMass Boston Computer Science Department website.

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#### Chimera

Research computing cluster for high-performance computing, GPU jobs, machine learning, simulations, and large-scale data analysis.

cs.umb.edu

#### Course Catalog

Current and upcoming course offerings for the UMass Boston Computer Science Department, organized by academic year and term.

cs.umb.edu

**System Impact** – Static  
department site → modern  
searchable, AI-ready  
platform.

**Navigation & UX  
Improvements** – Refined  
menus and discoverability.

**Structured Data / AI  
Readiness** – Added JSON-  
LD for search and RAG  
workflows.

**MY WORK &  
DELIVERABLES**