

Jamaal Tribune

Website: jamaaltribune.com
Email: jtribune@alumni.cmu.edu

Computational designer specializing in custom tool development, digital fabrication, and emergent design principles to uncover new aesthetic and performance innovations in textiles, apparel, and fibrous structures.

Education

school **Carnegie Mellon University** {
Master of Science (Computational Design):

Sep 2020 - Jun 2023
// A computer science research program within the School of Architecture that encourages novel aesthetic, material, and industrial advances.

// Published thesis that identifies opportunities to generate performance-based, knit textiles with data extracted from the human body. }

school **Saint Edward's University** {
Bachelor of Art (Visual Design):

Sep 2015 - May 2019
// A theory and practice-based program aimed at visual communication, gestalt theory, and design systems. }

Range of Abilities

Languages

Python
C#
Javascript
Grasshopper
Knitout

Software

Rhino
Blender
RobotStudio
Adobe Suite

Hardware

SHIMA SEIKI V-bed
ABB 6-Axis Robotics
3D Printer
Laser Cutter
CNC Mill

Experience

site **TU Delft | Industrial Design Engineering Department** {
Contract Textile Design Engineer:

Dec 2023 -
• Developed Grasshopper C# components for simultaneous design of woven textiles and apparel patterns.
• Schemed a blueprint of computational pipeline and effectively communicated it to international research team.
• Devised a communication bridge between image data for textile design and geometric data for patternmaking.
• Integrated feedback from research team to enhance the adaptability of computational pipeline for diverse looms.
• Advised research team on opportunities for computational intervention in accompanying projects. }

site **CMU Textiles Lab** {
Textile Lab Technician:

Sep 2021 - Dec 2022
• Led collaborative brainstorming sessions and Python code reviews with lab head, driving 3D knitting research.
• Transformed complex research findings into actionable insights, updating fellow researchers weekly.
• Presented research results, amplifying lab influence at Computer Science Symposium.
• Ensured lab security and operational integrity by responsibly managing lab access and keys.
• Demonstrated lab maintenance skills through cleaning and assisting needle replacement for knitting machines. }

site **EX-CHANGE** {
Exhibition Coordinator:

Jan 2022 - Jun 2022
• Efficiently transported and digitally archived 500+ physical architectural models.
• Managed vendor coordination, successfully securing a graphic design vendor to produce printed materials.
• Reviewed vendor contract terms in collaboration with the design team.
• Developed 3 proposals to shape the exhibition's creative direction. }

site **CoDeLab** {
Exhibition Coordinator:

Sep 2020 - Jan 2021
• Oversaw internationally shipment of 150 historical computational artifacts in "Vers Un Imaginaire Numerique".
• Collaborated with an international team in Montreal, employing Illustrator to communicate exhibition layout.
• Ensured artifact quality, viewability, and usability through testing, to enhance visitor experience and satisfaction. }

site **The Contemporary Austin** {
Graphic Design Intern:

Sep 2018 - Dec 2018
• Designed digital and physical museum materials using Illustrator, upholding brand consistency.
• Planned and designed wayfinding signs, improving visitor navigation and enhancing museum experience.
• Documented construction of a new building facility through photography, contributing to project records. }

site **C2C Fashion Technology** {
Digital Media Intern:

May 2018 - Aug 2018
• Tested novel VR/AR technologies, including AR mirror tech, to elevate the fashion consumer buying experience.
• Integrated product lines into company's ERP using photogrammetry, optimizing data integration and accessibility.
• Ensured clear organizational objectives by recording meeting minutes to maintain goal alignment. }

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Engagement and Contributions

Awards

- Architecture and Design Scholarship, Recipient, 2019
- Juried Student Exhibition, Honorable Mention, 2018
- President's Scholarship, Recipient, 2015
- Water Conservation Poetry Contest, Recipient, 2015

Memberships

- Studio for Creative Inquiry, 2021-22
- Computational Design Lab, 2020-22
- Vurv: Creative Technologists, 2018-20
- CABRA Magazine, 2015-19
 - Design Director, 2018-19

Talks

- Drawing with Machines Culmination Review, 2021
- Computer Science Research Symposium, 2021
- AIGA Grow Conference, 2019
- SOURCE Research Symposium, 2019
- SOURCE Research Symposium, 2018

Publications

- EX-CHANGE, 2023
- "Computational Methods in Knit Design", 2023
- J Source Research Journal, 2018
- CABRA Magazine, 2015-19

Volunteering

- SXSW Interactive Conference, AR/VR Assistant, 2018
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- Austin Bike Project, 2017
- Tribeza Fashion Show, Wardrobe Assistant, 2017