

# Reyhaneh Danesh Doost

Textile Engineer & Computational Designer

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## EDUCATION

### B.Sc. Textile Engineering

2015–2020

University of Guilan, Iran | GPA: 16/20 (3.2/4.0) | Thesis: "Polyurethane Foams & Industrial Applications"

## RESEARCH INTERESTS

Generative Art   Computational Design   Human-AI Collaboration   Smart Textiles   Creative Coding   Web3 Technologies   Scientific Visualization   Interactive Media

## GENERATIVE ART RESEARCH

**60+ Algorithmic Art Collections** exploring mathematical patterns, computational aesthetics, and creative coding across blockchain platforms. Primary research in mathematical visualization and procedural generation.

- [fxhash](#)   [Objkt](#)   [Exchange.art](#)   [editart](#)
- **Mathematical Series:** [Fourier](#), [Fibonacci](#), [Bézier curves](#)
  - **Geometric Explorations:** [Girih](#) patterns, [Triangulum](#), [Spirograph](#)
  - **Computational Systems:** [Game of Life](#), [Sudoku](#), [Fractals](#)
  - **Featured Works:** [Wandering Eyes](#) (Objkt), [Celestial Frost Arcs](#) (AI-assisted)
  - **ASCII Art Research:** [ASCII Body Series](#) - Digital representation studies
  - **Published Research:** Featured in [Visual Art Journal](#), Issue 31

## APPLICATIONS & WEB DEVELOPMENT

- **Sparrow Hawk CodeArt Generator** - AI-assisted generative art tool (Vercel/Groq API)
- **Sparrow Hawk News Sidekick** - AI-curated tech news dashboard (Vercel/Groq API)
- **Textile-verse Web Application** - Engineering calculation tools (JavaScript)
- **Gizmo Webbook** - Interactive AI-generated comic experience (JavaScript)
- **Baby Hawk Mantra Generator** - AI-powered inspiration soul (Vercel/Groq API)

## PUBLICATIONS & DIGITAL MEDIA

- **Academic Publication:** [Visual Art Journal](#), Issue 31 (pp. 18-19)
- **Technical Writing:** [Medium](#), [Daily.dev](#)
- **AI Podcast:** [AI Storytelling Podcast](#)
- **AI Music:** [AI-Generated Music](#)
- **Educational Content:** [YouTube \(English\)](#) & [YouTube \(Persian\)](#)

TECHNICAL SKILLS

JavaScript/ES6+

p5.js

React.js

HTML5/CSS3

Python

Fortran

Node.js

Three.js

D3.js

OpenAI API

Git/GitHub

LaTeX

Material Studio

LAMMPS

Bootstrap

REST APIs

Data Visualization

Textile Engineering

Polymer Science

Generative Algorithms

PROFESSIONAL EXPERIENCE

Freelance Computational Designer & Developer2019–Present

Developed custom web applications, AI tools, and educational content. Created interactive data visualizations and technical tutorials in Persian for engineering students.

Generative Art Researcher & Web3 Designer2024–Present

Published 60+ generative art collections exploring mathematical patterns and computational aesthetics. Research in algorithmic art, blockchain platforms, and digital ownership models.

CERTIFICATIONS

- JavaScript Algorithms & Data Structures - freeCodeCamp
- Front End Development Libraries - freeCodeCamp
- Responsive Web Design - freeCodeCamp
- Data Visualization - freeCodeCamp
- Back End Development & APIs - freeCodeCamp
- Nanotechnology Applications in Polymers - IPM

AWARDS & RECOGNITION

- Featured Artist on Objkt: "Fibonacci Fourier" & "ASCII Venus" curated on homepage
- "Hidden Gem" Selection: "ASCII Grapefruit" featured by Exchange.art (May 2024)
- Academic Publication: Generative artworks published in Visual Art Journal, Issue 31
- Platform Recognition: 60+ collections across 4 major Web3 art platforms

RESEARCH METHODOLOGY

- Computational Creativity: Algorithmic exploration of mathematical patterns and generative systems
- Human-AI Collaboration: Co-creative processes integrating AI tools in artistic workflows
- Material Science: Engineering background applied to digital material studies
- Cross-disciplinary: Integration of textile engineering, computer science, and digital art
- Open Source Research: Public documentation and sharing of creative coding processes