



Reyhaneh Danesh Doost (Reyrove)

Email: reyhanehdaneshdoost@gmail.com

[Personal Website](#) | [LinkedIn](#) | [GitHub](#) | [Hugging Face](#) | [YouTube \(English\)](#) | [YouTube \(Persian\)](#)

About Me

I am a multidisciplinary researcher and creative technologist with a background in Textile Engineering and a deep passion for generative art, human-AI collaboration, and open-source education. My work bridges the gap between engineering, design, and digital culture, with a focus on exploring new interfaces for storytelling, artistic expression, and interactive learning. I am particularly interested in the ethical and innovative use of AI in both scientific and artistic contexts.

Education

Bachelor of Science in Textile Engineering, University of Guilan, Iran (2015–2020)

GPA: 16/20 | Thesis: "Investigation of Polyurethane Foams and Their Applications in Various Industries"

Academic Research & Projects

- **Sparrow Hawk CodeArtGenerator** – Generate Code art from text prompts. [Live Demo](#)
- **Sparrow Hawk News Sidekick** – Display news analysis in an attractive dashboard. [Live Demo](#)
- **Generative Art on fxhash** – Creative coding projects using JavaScript, p5.js, and fxhash.min.js. [View](#)
- **Objkt Generative Art** – NFT collections built with p5.js and Sparrow Hawk AI. [View](#)
- **OpenSea Generative Art** – NFT series created with Sparrow Hawk AI. [View](#)
- **ASCII Art Series** – Women-focused ASCII works via p5.asciart. [Objkt](#), [Exchange.art](#)
- **Sparrow Hawk AI Assistant** – AI-powered generative art bot using Botpress. [Try It](#)
- **Textile Engineering Web App** – Tools for GSM, cost, and twist visualization. [View App](#)
- **AI Podcast Stories** – Audio series with AI-generated narration and cover art. [Spotify](#)
- **AI-Composed Ambient Music** – Tracks made using Sparrow Hawk and Udio AI. [Listen](#)

Research Interests

- Generative Art and Computational Creativity
- Human-Centered AI and Visual Computing
- Wearable Technology and Smart Textiles
- Scientific Programming and Simulation
- Open Source Education in Engineering
- AI-Augmented Design and Human-AI Collaboration
- Creative Coding for Storytelling and Expression
- Blockchain and Decentralized Technologies in Art
- Web-Based Interactive Educational Tools
- Cross-Disciplinary Fusion of Art, Science, and Technology
- Textile-Based Interfaces and E-Textiles
- Ethics and Accessibility in Tech-Integrated Art

Technical Skills

- **Programming Languages:** Fortran, JavaScript, Python, HTML5, CSS3
- **Frameworks, Libraries & Tools:** React.js, Redux, Express.js, Bootstrap, jQuery, SASS, Node.js, p5.js, fxhash.min.js, Three.js, p5.asciiart, p5.patgrad, D3.js (Data Visualization)
- **AI & Machine Learning Platforms:** Google Dialogflow, Botpress, OpenAI API
- **Generative Art & Blockchain Platforms:** fxhash, objkt, exchange.art, OpenSea (NFT creation and minting)
- **Database & Backend Technologies:** MongoDB, RESTful APIs, API Development (REST), Microservices
- **Data Visualization:** Chart.js, Data Analysis, JSON, AJAX
- **Development Tools & Software:** Git, GitHub, Visual Studio Code, Replit, LaTeX, Material Studio, LAMMPS, OVITO, Google AI Studio, Notion, Udio AI, Spotify, GIMP, Photoshop, Microsoft Office Suite, Postman (API testing)
- **Operating Systems:** Microsoft Windows, Linux (Intermediate proficiency)
- **Languages:** English, Persian (Native)

Professional Experience

Freelance Developer and Content Creator (2019–Present, Remote – Iran)

- Delivered customized web and AI projects for diverse clients across various sectors.
- Produced educational content in Persian for engineering students, emphasizing technical skills and software proficiency.

Generative Art Designer in Web3 (2024–Present, Remote)

- Designed and developed generative art projects within the Web3 space, utilizing blockchain platforms such as fxhash, Objkt, and OpenSea.
- Created unique generative art NFTs through the use of creative coding technologies including JavaScript, p5.js, fxhash.min.js, and other Web3 development tools.
- Collaborated with artists and developers to produce cross-disciplinary projects, integrating blockchain technology with digital art.
- Published and minted generative art collections on platforms like fxhash and Objkt, enabling innovative ownership models for digital art.
- Explored the intersection of art and blockchain by creating on-chain artwork that lives permanently on the blockchain, providing authenticity and scarcity for collectors.

Certifications

- JavaScript Algorithms and Data Structures – freeCodeCamp
- Front End Development Libraries – freeCodeCamp
- Responsive Web Design – freeCodeCamp
- Data Visualization – freeCodeCamp
- Back End Development and APIs – freeCodeCamp
- Online Lead Generation – course led by Arash Dehghan (Oct 2020, Arjang Academy)
- **Nanotechnology Applications in Polymers** – Seminar by Emad Ahmadvand at Institute for Research in Fundamental Sciences (IPM) (Oct 3, 2020). List of participants.

Academic Publications & Articles

- Medium Articles – Exploring the intersection of generative art, AI, and digital culture
- On-chain Articles on fxhash – Research and insights on the fusion of art and technology in NFTs
- Technical Articles on Daily.dev – Tutorials and thought leadership on web development and generative art
- Generative Art Feature in Visual Art Journal – Published works in Issue 31 (also available in flipbook format, pp. 18-19)