

# Parsa Niavand

Tehran, Iran | parsaniavand0 at gmail.com | GitHub/parsany | parsany.github.io

## EDUCATION

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### BSc in Computer Science

Sep 2019 - August 2025

SRBIAU

Department of Converging Sciences and Technologies

(15.90/20.00)

### Diploma in Mathematics and Physics

Sep 2016 - Jun 2019

(18.75/20.00)

## SKILLS

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**Programming Languages:** Python, C++

**Libraries & Frameworks (Backend):** PyTorch, Numpy, Pandas, Matplotlib

**Databases:** SQLite, PostgreSQL

**Frontend Development:** Next.js, JavaScript, Tailwind CSS

**Tools:** Bash scripting , Linux , Git, Regex, Jupyter

**Document Preparation:** Microsoft Office, LaTeX

## RESEARCH INTERESTS

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Artificial Intelligence, Machine learning, Computer Vision, Robotics and Simulation,  
Image Segmentation, Image Processing, Data Analysis, Data Mining

## PROJECTS

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### Cat Emotion Recognition

Developed a convolutional neural network (CNN) model to recognize and classify the emotions of cats from images. This project involved data preprocessing, model training, and evaluation to achieve high accuracy in emotion detection. GitHub Link: EvoAlgo

### Evolutionary Algorithm in C++

Implemented an evolutionary algorithm in C++ for Simulation. This project explores heuristic algorithms and simulations, demonstrating the effectiveness of evolutionary strategies in finding optimal solutions. GitHub Link: CatRec

### PIDNN

Created a PID control system integrated with neural networks for optimizing performance in various applications. This project focuses on enhancing the control mechanism through machine learning techniques. GitHub Link: PIDNN

## SELECTED COURSES

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Artificial Intelligence	(3.2/4)
Probability I	(3.1/4)
Combinatorics	(3.4/4)
Theory of Computation	(3.7/4)
Linear Optimization	(3.1/4)
Design & Analysis of Algorithms	(under compilation))
Design & Linear Algebra	(under compilation)

## LANGUAGES

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**Persian:** Native    **English:** Bilingual (IELTS Score: yet to attach )

## EMPLOYMENT

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### **Junior Frontend Web Developer**

Pixie Studio

November 2023 - October 2024

- Developed responsive web applications using Next.js and React.
- Utilized Tailwind CSS for efficient styling and layout design.
- Implemented server-side components to enhance performance and SEO.
- Participated in code reviews and contributed to team knowledge sharing.

### **UI Designer**

Karo Game Studio

December 2021 - August 2022

- Designed user interfaces for game menus and HUDs.
- Collaborated with game developers and artists to create cohesive visual styles.
- Created prototypes using Figma to visualize design concepts.