

Artin Ghorbanian

AI & Product Engineer

Full-Stack Development · AI Systems · Product Design



I build intelligent products from idea to impact.

I combine artificial intelligence, full-stack engineering, and product design to transform complex problems into practical, scalable, and dependable digital products.

Python & AI

Full-Stack Development

JavaScript

Product Design

Tehran, Iran · Available for remote collaboration worldwide

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Product Thinking Meets Technical Execution

I am an AI and product developer focused on building practical digital products, including AI-powered web applications, backend services, automation tools, data-driven systems, and functional MVPs.

My work covers the complete product-development process: understanding the problem, defining user flows, designing interfaces, developing backend APIs, integrating databases, implementing AI capabilities, and turning early concepts into usable software.

Core Capabilities

AI Product Development Building AI-powered web applications, prompt-based workflows, intelligent assistants, and user-facing language-model features. OpenAI API · GPT Integration · Prompt Engineering · AI Applications	Backend Engineering Developing application logic, structured REST APIs, data validation, backend services, and reliable frontend-to-server communication. Python · FastAPI · Pydantic · REST APIs
Frontend Development Creating responsive and interactive interfaces with clear visual hierarchy, accessibility, and smooth user experiences. HTML5 · CSS3 · JavaScript · Responsive Design	Database Integration Structuring data models, connecting applications to databases, and implementing reliable data-management workflows. SQLite · SQLAlchemy · CRUD · Data Modeling
Automation & MVP Development Automating repetitive processes and transforming early concepts into working SaaS and MVP prototypes. Python Automation · API Workflows · Product Prototyping	Machine Learning Workflows Preparing datasets, processing features, training and evaluating models, and experimenting with neural-network architectures. Pandas · Scikit-learn · TensorFlow · PyTorch
Practical over theoretical User value over decorative features	Clear architecture over unnecessary complexity Reliable implementation over inflated claims

Recognition, Membership & Professional Training

Recognition

IFIA "Inv" Membership
International Federation of Inventors' Associations · 2026

Recognized as an IFIA Inv Member by the International Federation of Inventors' Associations.
Verification:
IR2026JUN3125A4G

Silver Award
6th International Invention and Innovation Competition for IFIA INV Title Holders · 03–05 July 2026 · Geneva, Switzerland

Received the Silver Award for an adaptive AI assistant designed for crypto-market analysis, token-security assessment, and risk-aware decision support.
Awarded Project:
AIONEX AI Trade

Bronze Medal
International Exhibition of Inventions Geneva · 14 March 2026 · Geneva, Switzerland
Recognized Work: AI-Based Text Analysis System for Environmental-Risk Prediction and Resource Optimization

TISIAS Special Award
Toronto International Society of Innovation & Advanced Skills · 11–15 March 2026 · Geneva, Switzerland
Recognized Work: AI-Based Text Analysis System for Environmental-Risk Prediction and Resource Optimization

Professional Training

Programming Certificate
Amirkabir University · 2025–2026 · Tehran, Iran

Programming fundamentals, practical coding, and software-development skills.

Web Design Course
Aiolearn Academy · 2025–2026 · Online

Frontend structure, responsive layouts, and practical website development.

Advanced Programming
Aiolearn Academy · 2025–2026 · Online

Development logic, problem-solving, application architecture, and software implementation.

📄 Each award is displayed only beside the project or invention for which it was granted.

AIONEX AI Trade

AI-AssistedCrypto-MarketAnalysisand Risk-Support Platform

AIONEX AI Trade is an AI-assisted analytical workspace designed to bring fragmented crypto-market information into one structured environment.

The platform combines technical, market, on-chain, sentiment, and token-security information to support more structured and risk-aware decision-making.

FinTech · AI/ML · Data Analysis · Blockchain · Project start: September 2025

❏ AIONEX AI Trade is an analytical and decision-support system. It does not guarantee investment outcomes, market performance, or financial returns.

Core Modules

Signal Hunter

Generates structured market observations with proposed risk levels, stop-loss logic, and confidence indicators.

Data Analyst

Presents market sentiment, large-holder activity, and broader market-risk indicators through an analytical dashboard.

Market Overview

Displays sector activity and market movement through structured summaries and visual overviews.

Price Hunter

Compares market prices and identifies potential price differences across supported data sources.

DEX Explorer

Supports the review of emerging tokens and highlights abnormal activity or possible token-security risks.

Market-regime detection

Dynamic indicator weighting

Timeframe selection

Confidence scoring

AIONEX App Generator

Prompt-Driven Application Prototyping and Code-Debugging Assistant

AIONEX App Generator is a development assistant designed to help transform product requirements into structured application prototypes and support developers during debugging and code refinement.

Instead of functioning only as a code-completion tool, it organizes development into clearer stages—from interpreting the requested product to generating components, reviewing code, identifying issues, and presenting proposed changes.

The system reduces repetitive setup work and helps make code generation, review, and correction easier to understand and manage.

Generative AI · Developer Tools · Full-Stack Development · Project start: August 2025

Development Workflow

01

Requirement Interpretation

Analyzes the user's written product request and identifies the expected structure, pages, features, and technical components.

02

Application Scaffolding

Creates an initial application structure based on the product description.

03

Code Analysis

Reviews code to identify syntax errors, logic issues, and structural problems.

04

Guided Debugging

Explains likely causes of an issue and proposes targeted corrections.

05

Transparent Diff View

Displays proposed changes through a clear before-and-after comparison.

06

Developer Workflow Support

Organizes generated files and revisions in a format designed for practical development workflows.

AIONEX Teacher

Local-First AI Tutor and Learning Assistant

AIONEX Teacher is an AI-powered educational system designed to provide structured, adaptive, and resource-aware learning support.

The platform combines user-provided materials with language-model capabilities and specialized computational tools to deliver explanations aligned with the learner's own resources, educational goals, and level of understanding.

EdTech · RAG · AI Tutor · Educational Technology · Project start: October 2025

Core Features

- Adaptive explanations from beginner to advanced levels
- User-resource integration
- Smart quiz and exercise generation
- Structured mathematical assistance
- Step-by-step conceptual teaching
- Context-aware learning support

Processing Workflow



Request Understanding

Identifies the subject, difficulty level, and educational intent behind the learner's request.



RAG-Based Personalization

Retrieves relevant information from user-uploaded PDFs, notes, and study materials.



Smart Tool Selection

Uses specialized tools such as SymPy for mathematical problems and Python-based processing when structured computation is needed.



Teaching-Oriented Response

Explains concepts, reasoning, and methods instead of returning only a final answer.

AIONEX PsyDesign AI

AI-Assisted Brand Strategy and Visual Identity Concept System

AIONEX PsyDesign AI helps transform an early business idea into a structured brand-strategy foundation.

The system combines natural-language processing, audience analysis, brand psychology, color theory, and generative AI to produce practical branding directions before detailed graphic design begins.

Brand AI · NLP · Visual Identity · Product Design · Project start: November 2025

Additional Capabilities

- Multilingual branding support
- Color-code generation
- Brand-archetype analysis
- Tone-of-voice testing
- Text-to-speech experiments for sonic-identity exploration

Generated Outputs

Brand Personality

Suggests brand archetypes, communication style, emotional direction, and tone of voice.

Audience Persona

Creates an initial profile of the intended audience based on the product, market, and business concept.

Verbal Identity

Proposes brand-name directions, slogans, and messaging concepts aligned with the intended audience.

Visual Direction

Generates color-palette suggestions, visual moods, and initial logo-style directions.

Brand Interaction

Allows users to test the proposed brand personality through an interactive conversational experience.

■ BRONZE MEDAL · GENEVA 2026

■ TISIAS SPECIAL AWARD · GENEVA 2026

AI-Based Environmental Risk Intelligence

Text Analysis for Risk Identification and Resource-Optimization Support

This project is an AI-based text-analysis system designed to identify environmental-risk indicators and support more structured resource-optimization decisions.

The system transforms unstructured environmental information into clearer analytical signals that can help researchers, organizations, and decision-makers review possible risks, priorities, and resource-related concerns.

□ This project is an analytical and decision-support system. It does not claim guaranteed environmental predictions, autonomous policy decisions, fully accurate risk forecasting, or verified accuracy percentages.

Core Workflow

01

Environmental Text Processing

Processes text-based environmental information and prepares it for structured analysis.

02

Indicator Extraction

Identifies potentially relevant environmental terms, patterns, entities, and contextual indicators.

03

Risk-Signal Identification

Detects signals that may be associated with environmental threats, operational concerns, or resource pressure.

04

Structured Summarization

Transforms large or fragmented text inputs into concise analytical summaries.

05

Decision-Support Output

Organizes the identified information to assist resource prioritization and planning discussions.

Independent Product Development Journey

The following timeline represents independent, practical, and project-based product development rather than employment positions at unnamed companies.



Tehran, Iran · Remote Project Work

Additional Product Experiments

PowerPoint Maker

Generates structured presentation drafts from written prompts and supports customized slide content.

Cal AI

A nutrition-analysis concept designed to estimate and organize food-related nutritional information.

AI News Chatbot

A conversational interface designed to summarize and discuss current information from connected data sources.

Image Generation Workspace

A prompt-based interface for organizing and refining image-generation requests.

Smart Voice Assistant

A voice-interaction concept designed to connect user commands with application or system functions.

Let's Build Something Useful

For every collaboration, my focus is on understanding the problem clearly, defining practical requirements, and building a solution that is usable, maintainable, and ready for further development.

Available for

- AI-powered web applications
- SaaS and MVP development
- OpenAI API integration
- FastAPI backend development
- Frontend interface development
- Automation tools
- Database-backed applications
- AI product prototyping

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Design · Engineering · Artificial Intelligence

Available for selected freelance, startup, research, and product-development collaborations.