

# AI Agents Intensive — Projects & Agents Directory

Repository: `esk000/AIAgentsIntensive`

## Agent2Agent Suite

### Product Catalog Agent

Provides product information and availability. A2A-enabled with auth.

[Source](#) [Server](#) [Agent Card \(Prod\)](#)

[Agent Card \(Dev\)](#)

### Inventory Agent

Manages stock and availability. A2A-enabled with auth middleware.

[Source](#) [Agent Card \(Dev\)](#)

### Shipping Agent

Handles shipping quotes and logistics. A2A-enabled with auth middleware.

[Source](#) [Agent Card \(Dev\)](#)

### Payment Agent

Stripe payments with retries and error handling. A2A-enabled with auth.

[Source](#) [Agent Card \(Dev\)](#)

### Customer Support Agent

Orchestrates sub-agents (catalog, inventory, shipping, payment) via A2A proxies.

[Source](#)

### Remote A2A Proxy

Configures authenticated `RemoteA2aAgent` clients with resilient HTTP.

[Source](#)

### A2A Auth Middleware

Enforces API Key / Bearer headers; agent card remains public.

[Source](#)

## Agent2Agent Files (Per-File Descriptions)

### ProductCatalogAgent.py

Serves product details via `get_product_info` (name, price, availability). Runs on port `8002`.

[File](#)

### ProductCatalogAgentServer.py

ASGI/FastAPI server exposing the Product Catalog agent API and agent card. Applies A2A auth middleware.

[File](#)

### InventoryAgent.py

### ShippingAgent.py

Checks stock availability and quantities. Intended to run on port `8003` with A2A auth.

File

Computes shipping quotes and logistics options. Intended to run on port `8004` with A2A auth.

File

### PaymentAgent.py

Handles Stripe payments with resilient retries ( `STRIPE_MAX_NETWORK_RETRIES` ). Reads `STRIPE_API_KEY` . Intended for port `8005` .

File

### CustomerSupportAgent.py

Orchestrates sub-agents via authenticated A2A proxies. Reads `PRODUCT_CATALOG_AGENT_CARD_URL` , `A2A_API_KEY` , `A2A_BEARER_TOKEN` .

File

### RemoteA2aAgent.py

Reusable authenticated HTTP client for A2A. Loads agent cards, adds auth headers, and performs resilient calls to remote skills.

File

### a2a\_auth.py

Middleware enforcing API Key/Bearer auth on agent endpoints, while allowing public access to `/.well-known/agent-card.json` .

File

### FetchAgentCard.py

Utility to fetch and validate remote agent card JSON by URL. Useful for bootstrapping A2A clients.

File

## Other Agents & Projects

### Home Automation Agent

Sample ADK agent with evaluation artifacts.

Folder

### Research Agent

Research-focused agent with replay and tests.

Folder

### Sample Agent

Minimal example agent, helpful for quick starts.

Folder

## Utilities & Workflows

### Sequential Agents

### Linear / Loop / Parallel

Demonstrates chained agent flows.  
Script

Alternative orchestration patterns for agents.  
Linear Loop Parallel

### Multi-Agent

Multi-agent coordination entry point.  
Script

## Discovery

Agent Card (Prod): / .well-known / agent-card.json

Agent Card (Local Dev): Product Catalog, Inventory, Shipping, Payment

All 5-days AI Agents Intensive — Projects & Agents with Implementation