# LifeWizard Tech Stack

1. **Search Engine Functionality**
   1. Brave Search API
      1. Used for web searching based on keywords.

# Domain Registration

* 1. GoDaddy
     1. Domain registrar for [https://www.wizardry](http://www.wizardry.one/).one

# Cloud Hosting & Computing

* 1. DigitalOcean
     1. Cloud computing platform for hosting LifeWizard's backend and running Python scripts.
  2. Cloudways (via DigitalOcean)
     1. Managed cloud hosting service for simplified application deployment and management.
  3. Paperspace (via DigitalOcean)
     1. Cloud-based platform for building, training, and deploying machine learning models.

# Code Management & Development

* 1. GitHub & GitHub Actions
     1. Code hosting for version control and collaboration, CI/CD pipeline
  2. Visual Studio Code
     1. Source-code editor for building and debugging applications.
  3. PyTest
     1. Unit testing

# API Management

* 1. Postman
     1. Facilitates testing, documenting, and managing multiple APIs with a flexible and collaborative environment. It allows for faster API design, development, documentation, and testing.

# Containerization & Orchestration

# Kubernetes (via DigitalOcean)

* + 1. open-source container orchestration platform

# AI Interaction & Enhancement

# LangChain

* + 1. Facilitates and optimizes interactions between LifeWizard's modules and AI language models, enabling more complex and context- aware AI functionalities.

# AI & Machine Learning Models

* 1. OpenAI API
     1. Access to advanced AI models for text-based interactions and decision-making.
  2. Stability.ai API
     1. Specializes in image and voice synthesis for multimedia content creation.
  3. Cohere API
     1. Provides NLP tools for text classification, extraction, and generation.
  4. AssemblyAI API
     1. Known for accurate transcription and audio processing capabilities.
  5. Whisper API
     1. OpenAI's speech-to-text service.
  6. HuggingFace API
     1. Access to a range of pre-trained models for NLP and computer vision.
  7. Azure Bot Services
     1. APIs for building and managing intelligent bots.
  8. Anthropic Claude AI
     1. Conversational AI model with a focus on safety and robustness.

# Project Planning & Visualization

* 1. MindMeister
     1. Mind mapping and flowcharting tool.
  2. EverNote
     1. Note taking and text content

# Database Management

* 1. Database Management System (DBMS) such as PostgreSQL, MySQL, or MongoDB
     1. Essential for data storage, retrieval, and management.

# Text-to-Speech AI Services

* 1. ElevenLabs
  2. IBM Watson
  3. OpenAI TTS

# Automation & Integration

* 1. IFTTT
     1. Automation platform for integrating tasks across different services.
  2. Zapier
     1. Automation platform for integrating tasks across different services.

# IoT Management

* 1. - AWS IoT Core - Microsoft Azure IoT Hub
     1. Manages IoT device communications and data.

# Chatbot Cloud

* 1. User point of contact, orchestrates actions & utilization of resources for the given task

# Security & Privacy

* 1. Proton VPN
     1. Provides secure and private internet connections.
  2. DeepFactor
     1. Secure runtime analysis

# Data Backup & Logging

* 1. SnapShooter (via DigitalOcean)
     1. Provides cloud backups.
  2. PaperTrail (via DigitalOcean)
     1. Aggregates app and system logs.

# Communications Services

* 1. ProtonMail
     1. Secure email service provider.
  2. Thunderbird
     1. iOS Email Manager
  3. Twilio
     1. Cloud communications platform for SMS and VoIP calling.
  4. Mint Mobile
     1. Mobile phone & E-911