

# Benjamin Takaki

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## PROFESSIONAL PROFILE

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ICT student at Fontys University of Applied Sciences with 3+ years hands-on experience developing and deploying production-ready web applications. Proven expertise in full-stack development, database design, and API integration. Successfully built and launched multiple applications including AI-powered CV analysis systems, OAuth-integrated music platforms, and media tracking solutions. Strong background in international environments with multilingual capabilities and cross-cultural communication skills.

## CORE SKILLS

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Full-Stack Web Development (Python/Flask/JavaScript) •

Database Design & Management (PostgreSQL/SQLAlchemy) •

API Integration & Development (REST/OAuth/Third-party APIs) •

Cloud Deployment & DevOps (Render/Git/Production Systems) •

AI/ML Integration (NLP/CV Analysis/Data Processing) •

Frontend Development (HTML5/CSS3/Responsive Design) •

User Authentication & Security (Session Management/OAuth) • Problem Solving & System Architecture

## WORK EXPERIENCE

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### Full-Stack Developer (Self-Directed Projects)

*Independent Development*

3+ years experience (2021-Present)

Designed, developed, and deployed multiple production-ready web applications serving real users. Built comprehensive systems including AI-powered CV analysis platform, OAuth-integrated music applications, and media tracking solutions. Achieved 100% uptime on deployed applications with optimized database performance handling thousands of records. Implemented secure user authentication, session management, and role-based access control systems.

### Camp Counselor

*International Summer Camps*

2+ years experience (2022-2023)

Led diverse groups of international children in educational and recreational activities. Developed strong leadership, communication, and cross-cultural skills while managing group dynamics and ensuring safety protocols. Created engaging learning experiences that improved participant satisfaction and program retention rates.

## **Waiter**

*Restaurant Service Industry*

1+ years experience (2021-2022)

Provided excellent customer service in fast-paced environments. Developed strong interpersonal skills, attention to detail, and ability to work effectively under pressure while maintaining high service standards and contributing to team efficiency.

## **KEY TECHNICAL PROJECTS**

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### **Audio Recognition System (Shazam Clone)**

*Music Identification Platform*

Development project - 2024

Developed rudimentary music identification system implementing audio fingerprinting algorithms to identify songs from audio clips. Built audio processing pipeline for feature extraction, database matching, and real-time recognition. Demonstrates understanding of digital signal processing and pattern matching algorithms.

**Technologies:** Python, Audio Processing, Digital Signal Processing, Pattern Matching, Feature Extraction

### **SkillsTown Course Recommender**

*AI-Powered Career Development Platform*

Production deployment - 2024

Developed comprehensive web application analyzing CVs using NLP technology to recommend personalized courses. Features complete user authentication, PDF processing, skill extraction via Gemini AI, course enrollment tracking, and admin interface. Successfully processes multiple file formats and integrates complex AI APIs for real-time analysis.

**Technologies:** Python, Flask, PostgreSQL, Gemini AI, spaCy, PDF Processing, SQLAlchemy

### **Spotify Cover Generator**

*AI-Powered Music Visualization Platform*

Production deployment - 2024

Built innovative application generating custom album artwork based on Spotify playlists using custom ML algorithms. Developed proprietary machine learning algorithm for intelligent title generation based on musical genre analysis and mood detection. Implements complete Spotify OAuth flow, analyzes music genres, creates personalized cover art, and manages premium user features. Handles complex API integrations and real-time image generation with robust error handling.

**Technologies:** Python, Flask, Spotify API, OAuth 2.0, Custom ML Algorithms, Machine Learning, Image Processing, Session Management

### **AnimeWatchList**

*Media Tracking & Discovery Platform*

Production deployment - 2024

Created full-stack web application for tracking anime series with comprehensive user authentication, advanced search functionality, and personalized lists. Features real-time API integration, optimized database queries, and responsive design supporting multiple user workflows and data persistence.

**Technologies:** Python, Flask, SQLAlchemy, REST APIs, JavaScript, Responsive Design

## Professional Portfolio Website

*Personal Professional Platform*

Live production - 2024

Designed and developed modern, responsive portfolio website showcasing professional projects and technical capabilities. Features dynamic GitHub API integration, functional contact forms, and seamless navigation between multiple deployed applications.

**Technologies:** HTML5, CSS3, JavaScript, GitHub API, EmailJS, Responsive Design

## EDUCATION AND QUALIFICATIONS

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### Bachelor of ICT

*Fontys University of Applied Sciences, Netherlands*

2024 - Present

Currently pursuing Bachelor's degree in Information and Communication Technology. Coursework includes software development, database systems, web technologies, system architecture, and modern programming methodologies.

### International Option of the French Baccalaureate

*Lycée Français International de Tokyo, Japan*

Graduated 2024

Graduated with honors from American Section of International Option of French Baccalaureate. Developed strong analytical thinking, problem-solving skills, and international perspective through rigorous academic program.

## ADDITIONAL INFORMATION

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### Languages:

**English:** Native

**French:** Native

**Japanese:** Conversational

**Dutch:** A1 Level

### Key Achievements:

- Successfully deployed and maintain multiple production web applications with 100% uptime
- Integrated complex third-party APIs including Spotify OAuth and AI services
- Developed optimized database architectures supporting thousands of records
- Implemented comprehensive user authentication and session management systems
- Created responsive, cross-browser compatible interfaces with modern web standards
- Demonstrated strong problem-solving through debugging complex technical challenges