

Boromey Han

Software Engineer

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SUMMARY

Full-stack software engineer with experience building desktop applications, web platforms, and AI/ML-powered tools. Specializing in Python and TypeScript ecosystems, with a focus on delivering production-ready software that solves real-world problems. Creator of WTN Suite, an AI-powered desktop application for automated video content creation.

TECHNICAL SKILLS

Languages	Python, TypeScript, JavaScript
Frontend	Next.js, React, Tailwind CSS, PySide6, PyQt6
Backend & Cloud	Firebase, Firestore, Stripe, Node.js
AI & ML	YOLO (Object Detection), Kokoro TTS, Edge TTS, Gemma LLM, Gemini API, OpenAI API
Tools	Git, PyInstaller, FFmpeg, Docker, Inno Setup
Platforms	Vercel, GitHub, Windows Desktop

PROJECTS

WTN Suite — AI-Powered Webtoon Narrator

2025 – Present

Python, PySide6, YOLO, Gemini/OpenAI, FFmpeg, PyInstaller

- Built a full desktop application that converts webtoons and manga into narrated videos using an automated AI pipeline
- Implemented AI-powered panel detection using custom-trained YOLO models for comic panel segmentation
- Integrated Gemini and OpenAI vision APIs for scene analysis and narrative text generation
- Built dual TTS engine support (Edge-TTS and Kokoro-TTS) with multi-character voice synthesis
- Developed professional video composition engine with scene animations, BGM, watermarks, and up to 4K export
- Packaged as a Windows installer using PyInstaller and Inno Setup for end-user distribution

WTN Web — SaaS Business Platform

2026

Next.js, TypeScript, Tailwind CSS, Firebase Auth, Stripe, Vercel

- Designed and built a full business website with landing pages, pricing, user authentication, and documentation
- Implemented Firebase Auth with email verification, password reset, and client-side route protection
- Integrated Stripe checkout via Firebase Extension for subscription management (3 tiers, monthly/yearly billing)
- Built a custom documentation system with 15+ pages using remark/rehype markdown processing pipeline
- Deployed on Vercel with custom domain, achieving 90+ Lighthouse scores across all categories

WTN Admin — Admin Dashboard

2026

Python, PySide6, Firebase Admin SDK

- Built a desktop admin dashboard for managing Firebase Auth users and Firestore subscription data
- Provides real-time user analytics and subscription management for the WTN Suite ecosystem

AI/ML Developer Tools

2025 – Present

Python, PyQt6, YOLO, Gemma LLM, Computer Vision

- **YOLO Dataset Builder:** Tool for creating and managing training datasets for custom object detection models
- **Webtoon Script Rephraser:** AI-powered rewriting tool using local Gemma 1B LLM for script improvement
- **Kokoro-TTS GUI:** Desktop application for high-quality text-to-speech with multi-voice support
- **Edge-TTS Web App:** Web-based text-to-speech with voice selection, rate/pitch controls, and audio export

LINKS

Portfolio	boromeyhan.me
GitHub	github.com/bosskham
Product Website	wtn-suite.com