





Hi there, I'm Junyi Zhu 🙋


AI-Augmented Cloud Architect | Python Specialist | SaaS Founder


 PYTHON 3.11+


 GOOGLE CLOUD


 FIREBASE

 KOTLIN

 DOCKER

 OPENAI

 GEMINI

 CLAUDE

📍 Groningen, The Netherlands | 🌐 Open to Hybrid/On-site | ✉ admin@cislink.nl

## 🔗 The Hybrid Architect

I bridge the gap between Enterprise Stability and AI Innovation.



Leveraging advanced AI workflows (Gemini/Claude) to deliver production-grade systems with **3x efficiency**.



📖 [My Philosophy: AI-Native Development](#) →

I build scalable cloud-native solutions that combine:

- **Enterprise-grade reliability** — Event-driven architectures, zero-downtime deployments
- **AI-first development** — LLM-powered agents, real-time voice AI, intelligent automation
- **Full-stack delivery** — From bare metal (IoT/Android) to serverless backends

## 🏆 Featured Projects

Project	Stack	Impact
 <b>Cislink Cloud Invoice Engine</b>	<div><div>Python3.11</div><div> GCP Functions 2nd Gen</div><div>Pub-Subyellow</div></div>	<b>Event-driven architecture</b> automating billing for 1000+ clients. Zero-maintenance serverless design. Processes €50K+ monthly invoices; reduced processing time from 2 hours → 10 seconds.

Project	Stack	Impact
 <b>Real-time AI Voice Operator</b>	<div>Python 3.12</div> <div>Gemini Live API</div> <div>Twilio</div>	<b>Autonomous voice agent</b> handling restaurant reservations via phone. Replaces traditional IVR with GenAI. Deployed on Google Cloud Run; sends WhatsApp confirmations.
 <b>Multi-Tenant POS Ecosystem</b>	<div>Kotlin Android</div> <div>Firebase</div> <div>IoT ESC/POS</div>	<b>End-to-end restaurant platform:</b> Android POS + Cloud backend + Kitchen printers. Dual-engine (Go+Python) print server for 100% uptime.

## Technical Arsenal

### Cloud & Backend

- **Languages:** Python (3.11+), Go (Golang), Kotlin, TypeScript
- **Cloud Platforms:** Google Cloud Platform (Cloud Run, Cloud Functions, Pub/Sub, Firestore)
- **Architecture:** Event-driven, Serverless, Microservices
- **Databases:** Firestore (NoSQL), PostgreSQL, Firebase Realtime Database

### AI & LLMs

- **Models:** Gemini 2.5 (Live API), Claude, GPT-4
- **Applications:** Real-time voice AI, Function Calling, RAG systems, Multi-agent workflows
- **Integration:** WebRTC, WebSocket, Twilio Media Streams

### DevOps & Infrastructure

- **Containerization:** Docker, Cloud Run
- **CI/CD:** GitHub Actions, Cloud Build
- **Monitoring:** Cloud Logging, Cloud Monitoring
- **Hardware:** ESC/POS thermal printers, Android devices

## Live Demo: AI-Augmented Automation

Experience my Python & Cloud automation in action:



### What happens behind the scenes:

1. Frontend (GitHub Pages) captures your request
2. GCP Cloud Function (Python 3.11) generates a professional PDF on-the-fly
3. Gmail API (OAuth2) delivers it securely

**Tech Stack:** Python 3.11 · GCP Cloud Functions (Gen 2) · fpdf2 · GitHub Pages

# Architectural Preview

Event-driven architecture I designed for scalability and fault tolerance:

```
graph TD
    subgraph Clients
        Web[Web Dashboard]
        POS[Android POS]
    end

    subgraph "GCP Serverless"
        API[API Gateway / Cloud Functions]
        Auth[Firebase Auth]

        subgraph "Async Processing"
            PubSub{Pub/Sub}
            Worker[Invoice Generator]
        end
    end







    DB[(Firestore)]
    Storage[(Cloud Storage)]

    Web -->|HTTPS| API
    POS -->|HTTPS| API
    API -->|Trigger| PubSub
    PubSub -->|Push| Worker
    Worker -->|Read/Write| DB
    Worker -->|Store| Storage

    style Worker fill:#4285F4,stroke:#fff,color:#fff
    style PubSub fill:#FBBC05,stroke:#fff,color:#333
    style DB fill:#EA4335,stroke:#fff,color:#fff
```

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## Why I'm the Right Match

-  **Local to Groningen** — Immediately available, no relocation needed
-  **Native Dutch** — Fluent in the language of the workplace and clients
-  **Cloud-Native Expertise** — Deep experience with Python 3.11+, GCP, event-driven architectures
-  **AI-Driven Workflow** — 3-5x productivity boost through strategic AI (Gemini/Claude) integration
-  **Entrepreneurial DNA** — Solo-founder of multi-tenant SaaS platforms (Cislink)
-  **Full-Stack Delivery** — From cloud infra & Python backends to Android (Kotlin)

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## Get In Touch

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- 🌐 **Website:** [cislink.nl](https://cislink.nl)

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Built with ⚡ by an AI-augmented developer in Groningen, Netherlands