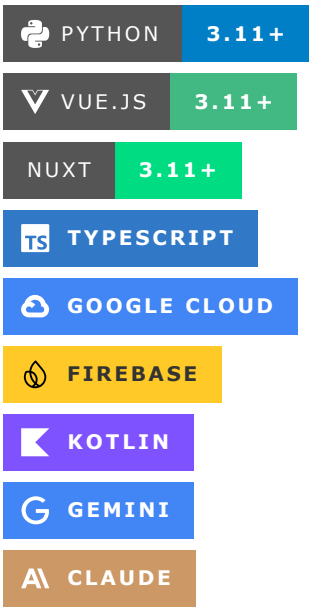
Hi there, I'm Junyi Zhu

AI-Augmented Cloud Architect | Python Specialist | SaaS Founder



📍 **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
📄 **Cislink Cloud Invoice Engine**	Python 3.11 GCP Functions 2nd Gen Pub-Sub yellow	**Event-driven architecture** automating billing for 1000+ clients. Zero-maintenance serverless design. Processes €50K+ monthly invoices; reduced processing time from 2 hours → 10 seconds.

Project	Stack	Impact
Real-time AI Voice Operator	Python 3.12 · Gemini Live API · Twilio	**Autonomous voice agent** handling restaurant reservations via phone. Replaces traditional IVR with GenAI. Deployed on Google Cloud Run; sends WhatsApp confirmations. **Demo: +3197010256688**
Multi-Tenant Food Delivery Platform	Vue 3.11+ · Nuxt 3.11+ · TypeScript	**Startup venture, full-stack solo development**. Multi-tenant Nuxt 3 app for 500+ restaurants. Dynamic theming, Stripe payments (iDEAL/Bancontact), Firebase Realtime DB, location-based routing. **Currently in prototype device testing phase.**
De Langemuur Restaurant Platform	Next.js 15 · Firebase · Python Functions	**End-to-end restaurant system**: Booking website (Next.js) → Firebase → Cloud Functions → C-language POS integration. QR ordering + Staff panel + WhatsApp notifications.
Multi-Tenant POS Ecosystem	Kotlin Android · Firebase · IoT ESC/POS	**End-to-end restaurant platform**: 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 Flash Native Audio (preview-12-2025), Claude 4.5, GPT-5.2
- **Applications:** Real-time voice AI, Function Calling, Agentic systems, Multi-step 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:

DEMO **INTERACTIVE CV GENERATOR**

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

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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

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

    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
```

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)

📬 Get In Touch

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