

# Isaac E. Maple

AI Engineer and Founder of TokForge | DMZ Network Architect, Bank of America

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## Summary

AI engineer and founder with 15 years in network engineering and security, now a DMZ network architect at Bank of America, where I design the secure network zones that sit between the internet and the bank. I built TokForge, an AI app with more than 9,000 downloads that runs fully on the phone, with no cloud. I co-founded a web hosting and security agency and run the servers behind 18 client websites. I take hard technical problems and turn them into products people can use.

## Skills

**AI and machine learning:** Running large language models on phones and servers (llama.cpp, MNN, vLLM, SGLang), model compression (quantization), speculative decoding, fine-tuning (LoRA), document search and retrieval (RAG), AI testing and evaluation, AI coding assistants (Claude Code, Codex)

**Mobile development:** Android (Kotlin, C++), iOS (Swift), GPU programming (Vulkan, OpenCL), Qualcomm AI chips (QNN), app releases on Google Play and Apple TestFlight

**Servers and cloud:** Linux, VMware, Cloudflare, Docker, MySQL, PostgreSQL, WordPress hosting, backups (Veeam), monitoring (Grafana, Prometheus)

**Networking and security:** DMZ and perimeter design, Zero Trust, firewalls, Cisco, Juniper, VPNs (WireGuard), SD-WAN, VoIP, 911 systems

**Languages:** Kotlin, C++, Swift, Python, TypeScript, SQL, Bash

## Experience

### Bank of America

Jun 2023 to Present

#### DMZ Network Architect

I design and review the network zones (the DMZ) that sit between the internet and the bank's internal systems. The work centers on security, keeping systems separated, and Zero Trust.

- Led infrastructure and security upgrades for CashPro, the bank's online banking platform for business clients, and for the bank's connection to the Federal Reserve.
- Serve as the AI lead for the DMZ team. Work with the Automation and Alignment teams to bring AI tools into network design.
- Designed ATM and alarm-panel upgrades that track ATM assets physically and digitally, including units that were stolen.

### TokForge.ai

Feb 2026 to Present

#### Founder and Developer

TokForge is a private AI app for Android and iPhone. It runs chat, image, voice and document AI directly on the phone, with no account and no cloud. I built it from the ground up and run it as a solo founder. Side projects in development: SurvivalOps.io, an offline survival and medical guide, and Folio, an AI story and game-master app.

- Launched on Google Play (9,000+ downloads, 4.4-star rating) and on Apple TestFlight.
- Built the engine that picks the fastest part of each phone (processor, graphics chip or AI chip) to run a given AI model, so the app works well on budget phones and flagships alike.
- Made AI models run on phone graphics chips from Qualcomm, Samsung and Arm. On a flagship phone, text generation was 1.4 to 2.4 times faster than the leading competitor's app.
- Document chat (RAG), AI agents, web search, image generation, and support for large mixture-of-experts models up to 40 billion parameters, all running on the phone.
- Published 85 AI models on Hugging Face, downloaded about 32,000 times in the last 30 days.

## Elevated-Marketing.io

Nov 2024 to Present

### Co-Founder and Technical Lead (part-time)

A web hosting and security agency I co-founded. My partner runs sales and client work. I built and run the servers, network and security behind 18 client websites in three data centers, with 99.99% uptime over the last year.

- Moved all 19 client websites to a new data center with zero downtime.
- Built automatic failover. If the main server fails, a backup takes over within about 3 minutes with no one touching it. We proved it by cutting the power.
- Built an AI tool that reads server error logs, explains the problem on a dashboard, and fixes common issues on its own within safety limits.
- Hardened the servers against attacks. One firewall fix took automatic blocking from zero to working within minutes, against more than 1,600 attack attempts.

## Earlier experience

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### CentrexIT | Senior Network Project Engineer

2022 to 2023

Ran network, server and security projects for clients across the US, including SD-WAN and VPN rollouts for multi-site chains. Handled escalations and trained junior engineers.

### NGA 911 | Director of Operations (promoted from NOC Manager)

2021 to 2022

Ran the 24/7 operations, security and support teams for a Next Generation 911 provider. Built the operating procedures for a new network operations center.

### Spectrum Enterprise | Network Engineer III

2018 to 2021

Fixed network and voice outages for business customers on a large VoIP platform and provided after-hours support.

### Frontier Communications (TekSystems) | Network Engineer III

2016 to 2018

Managed a network operations center covering 28 states. Helped connect more than 900,000 homes under a federal rural internet program.

### Earlier roles | Network operations and support

2008 to 2016

Baylor Scott & White (15+ hospitals), Suddenlink, Time Warner Cable (2,500+ cell-tower connections), General Dynamics, Windstream and CenturyLink.

## Education and certifications

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Tyler Junior College | Associate of Science, Computer Science

University of Texas at Tyler | 2008 to 2011

Certifications: CompTIA A+, Cisco CCENT, SSCA (SIP), Eagle Scout