

Karol Pawlowski

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EDUCATION

University of Illinois Chicago

Expected December 2027

B.S. in Computer Science — Software Engineering Concentration · GPA: 3.34/4.0

Chicago, IL

- Relevant Coursework: Data Structures, Object-Oriented Programming, x86-64 Assembly & Machine Organization, Theory of Computation

TECHNICAL SKILLS

- **Languages:** C++, C, Python, JavaScript, Java, SQL, HTML/CSS
- **Frameworks:** React, Vite, FastAPI, Node.js, Tailwind CSS
- **Cloud & DevOps:** AWS, Vercel, Modal, Docker, Git, Linux
- **Data & ML:** PostgreSQL, PyTorch, Pandas, NumPy, scikit-learn, Tesseract OCR, Claude API
- **Infrastructure & Networking:** Proxmox, TrueNAS (ZFS), Tailscale, Cloudflare, Nginx Proxy Manager, Pi-hole

WORK EXPERIENCE

Mylon Education

Jun 2026 – Aug 2026

Software Engineering Intern

Remote

- Building a multi-tenant RAG tool that lets university staff query institutional documents in natural language with cited source answers, as part of a 10-week MVP for design-partner institutions
- Architecting a FastAPI/React/TypeScript stack with Supabase, pgvector, and Voyage AI embeddings, using Postgres Row-Level Security with signed JWT tenant claims for data isolation
- Implemented backend/frontend scaffolding, including a live /health endpoint and a GitHub Actions CI pipeline with linting and tests on every pull request

Player One Amusement Group

Jan 2023 – Jan 2026

Service Technician — Technical Apprenticeship

Chicago, IL

- Troubleshoot and resolved hardware and software failures across 20+ arcade systems at 8 locations, completing 100+ on-site repairs annually through systematic root-cause debugging to minimize venue downtime
- Configured, calibrated, and validated newly installed gaming units, coordinating hardware setup with software bring-up and final quality testing across multiple machine types

PROJECTS

[MedBill Analyzer](#) (React, Python, Modal, PostgreSQL, Claude API)

May 2026 – Present

- Built and deployed a live full-stack web app that analyzes medical bills via OCR, extracting CPT/HCPCS codes and benchmarking charges against 9,000+ CMS fee-schedule entries to flag overcharges against Medicare reference rates
- Engineered a secure serverless architecture (React 19/Vite on Vercel to an authenticated /api proxy to FastAPI on Modal to Neon PostgreSQL) with a shared-secret gate, per-IP rate limiting, and in-memory-only file processing that persists no user data
- Generated one-click dispute letters with Claude, re-verifying every cited overcharge server-side so the model can only reference figures independently confirmed against CMS data

[StockSignal — ML Stock Price Predictor](#) (Python, PyTorch, FastAPI, React)

Jan 2026 – Mar 2026

- Built a 3-layer LSTM forecasting model in PyTorch served through a FastAPI REST API, with a React + Tailwind CSS dashboard displaying real-time training progress and 7-day price forecasts

[Self-Hosted Homelab & Cloud Infrastructure](#) (Proxmox, TrueNAS, Docker, Linux)

2023 – Present

- Operate a 13+ service self-hosted platform spanning Proxmox virtual machines, TrueNAS (ZFS) network storage, and Dockerized applications, including a GPU-accelerated media server with hardware transcoding, serving 20+ users across streaming and photo services
- Designed a zero-trust remote access architecture (Cloudflare DNS, hardened VPS reverse proxy, Tailscale mesh VPN) with zero open ports, maintaining 99.9%+ uptime across 3 years of continuous operation

CERTIFICATIONS & ACHIEVEMENTS

- **Certifications:** AWS Certified Cloud Practitioner (2023)
- **Achievements:** 3rd Place — Capture the Flame 2026 CTF, Beginner Division, as part of a 3-person team (UIC, with Zebra Technologies, CompTIA & SANS Institute)