

FRANK FERUCH

Seattle, WA | (509) 730-1658 | frank.feruch@gmail.com

Full-Stack Developer | AI Platform Architect | Solution Architect

Public Trust Clearance (Active) - Federal Contract Eligible

PROFESSIONAL SUMMARY

Full-Stack Developer and Solution Architect with 15+ years delivering scalable enterprise CMS, AI-powered analytics, and cloud platforms for Fortune 500 and federal clients. Expertise spans Drupal, WordPress, Node.js, React, PHP, MySQL/PostgreSQL, Solr, and AWS. Skilled in leveraging AI to predict traffic trends, analyze system and traffic health, and detect security anomalies. Experienced in Git workflows, CI/CD, and cloud content delivery networks including Cloudflare and Akamai. Proven record of bridging full-stack engineering, AI integration, and federal platform modernization to deliver high-performance, secure, and compliant solutions while utilizing monitoring platforms like Sumo Logic and DOMO for operational insights.

CORE COMPETENCIES

Full-Stack Development: Front-End, Back-End, API Development, Responsive Design, PWA

CMS Platforms: Drupal 7-11, WordPress, Headless/Decoupled Architectures

AI and Machine Learning: Traffic Prediction, System Health Analysis, Security Analytics, GPT-4, Claude, Gemini, RAG Architecture, Vector Databases, Semantic Search

Cloud and DevOps: AWS, Acquia Cloud, Docker, CI/CD Pipelines, Git Workflows, Deployment Automation

Performance and CDN: Cloudflare, Akamai, WAF, Caching (Redis, Varnish), Query Tuning

Search and Analytics: Solr, DOMO Analytics, Sumo Logic, Monitoring and Reporting

Security and Monitoring: SIEM, Secure Authentication, Logging, Observability, Vulnerability Management

Federal Compliance and Accessibility: Section 508, WCAG 2.1, USWDS

Enterprise Solution Architecture: API Integration, System Scalability, Performance Optimization, Technical Governance

PROFESSIONAL EXPERIENCE

ACQUIA

AI and Federal Platform Architect / Full-Stack Engineer

August 2023 - Present

- Architect and support 60+ federal agency accounts including DOJ, managing platform stability for mission-critical government operations
- Supported the DOJ platform release of the Epstein Files (3.5M+ pages, 180K+ images, 2K+ videos) under the Epstein Files Transparency Act, ensuring 99.9% uptime during unprecedented public traffic surges
- Developed AI-powered traffic prediction system reducing unplanned downtime by 40% and improving capacity planning accuracy across federal platforms
- Architected 15+ custom API integrations connecting Drupal to enterprise systems, reducing data synchronization time from hours to minutes
- Implemented Solr search delivering sub-200ms response times for 500K+ document indexes; configured Cloudflare WAF blocking 10K+ monthly threats
- Built real-time monitoring dashboards with DOMO and Sumo Logic, reducing mean incident response time from 45 minutes to under 10 minutes

JOHNS HOPKINS PRESS

Senior Full-Stack Developer / Solution Architect

December 2021 - July 2023

- Maintained Drupal Commerce platform processing \$2M+ annual revenue across 140+ countries with 99.9% uptime for scholarly publications
- Developed order fulfillment API reducing manual processing by 80%
- Deployed predictive analytics identifying 3 critical security vulnerabilities before exploitation, protecting 50K+ customer records
- Optimized search infrastructure improving scholarly content discovery by 35%, directly increasing subscription renewals

HP ENTERPRISES

Senior Full-Stack Developer / Solution Architect

January 2017 - November 2021

- Consolidated 8 legacy Drupal sites into unified enterprise platform, reducing infrastructure costs by \$500K annually and maintenance overhead by 60%
- Architected enterprise API gateway serving 15+ internal applications and 200K+ daily requests with 99.95% availability
- Improved page load times by 65% through Varnish/Redis caching and CDN optimization, supporting 10x traffic growth during product launches
- Implemented security monitoring detecting and blocking 50K+ monthly attack attempts; achieved zero security breaches over 4-year tenure
- Delivered FedRAMP-aligned solutions for HP federal contracts, enabling \$10M+ in government procurement eligibility

AI PRODUCT DEVELOPMENT

AI SEARCH PRO

Founder / Architect

- Built AI search platform processing with 40% improvement in search relevance over traditional keyword search
- Launched WordPress plugin with enterprise licensing model; onboarded beta customers in legal tech and higher education sectors

EDUCATION

ECOLE SUPERIEURE D'ARTS GRAPHIQUES (ESAG)

Graphic Arts and Design Studies

Paris, France | 3 Years

ECOLE ACTIVE BILINGUE

International Baccalaureate (IB) Diploma

Paris, France

TECHNICAL SKILLS

Languages: PHP, JavaScript, Node.js, Python, SQL, HTML, CSS

Frameworks: React, Drupal 7-11, WordPress, REST API, GraphQL API

Databases: MySQL, PostgreSQL, MongoDB, Vector Databases

Cloud/DevOps: AWS, Acquia Cloud, Docker, CI/CD, Git

AI/ML: GPT-4, Claude, Gemini, RAG, Semantic Search, Vector Databases

Tools: Solr, Cloudflare, Akamai, Redis, Varnish, DOMO, Sumo Logic

KEYWORDS

Federal Platform Architect, DOJ, DHS, HHS, Federal Agencies, Public Trust Clearance, Section 508, WCAG 2.1, USWDS, Secure Cloud Architecture, AI Platform Architecture, Traffic Prediction, System Health Analysis, Security Analytics, Full-Stack Development, Drupal, WordPress, Headless CMS, Node.js, React, PHP, MySQL, PostgreSQL, MongoDB, REST API, GraphQL API, Solr, GPT-4, Claude, Gemini, RAG, Vector Databases, Semantic Search, CI/CD, Git, Docker, Cloudflare, Akamai, DOMO, Sumo Logic, Deployment Automation, Performance Optimization, Technical Governance