

Will Pletka

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SUMMARY

AI-focused software engineer who has built production agentic systems end to end. Direct hands-on experience creating complex business workflows, LLM orchestration processes, RAG systems, REST APIs, and React user interfaces. Comfortable both architecting a multi-tenant SaaS platform and engineering the guardrails, evaluation harnesses, and agent tooling that keep AI reliable in production.

PROFESSIONAL EXPERIENCE

Senior Engineer

Feb. 2026 – Present

VantageBid | vantagebid.ai

Tempe, AZ

- Architected and built VantageBid from the ground up and shipped it to paying customers: a multi-tenant SaaS platform for residential general contractors spanning AI estimating, subcontractor RFQs, budgets, AP/AR invoicing and payments, and margin reporting.
- Created an autonomous multi-step workflow to generate accurate construction estimates, using AI to analyze blueprints, send RFQs to vendors for their portion of the project, automatically handle communications, and collect and parse quote PDFs to build a budget, saving the average general contractor over 30 hours of labor per project estimate.
- Designed and built the AI estimating engine, using LLM-driven quote analysis and takeoffs with regional material-pricing enrichment to automate contractor bidding and estimation.
- Set the platform's technical standards, architecture, and requirements, modeling a 90+ table relational schema with hard financial invariants such as AP/AR separation, tenant isolation, and immutable ledger document numbers enforced across the service layer and test suite.
- Engineered the production backend and infrastructure, including secure server actions and APIs, NextAuth with role-based access control and multi-tenancy, Stripe billing, AWS S3 document storage with OCR, and Dockerized deployments on Vercel.

Software Engineer, Generative AI Platform

April 2024 – April 2026

Official AI

Seattle, WA

- Contributed to a generative AI platform specializing in digital avatars and autonomous reasoning agents.
- Engineered a Chain of Thought module using LangChain and the Gemini API for AI agent workflows.
- Developed Python pipelines for digital avatars and architected interactive AI agent interfaces.
- Optimized back-end REST services using Java Spring Boot and PostgreSQL for a production ReactJS application.
- Containerized services with Docker for deployment on AWS, GCP, and Replicate GPU platforms.
- Integrated Playwright automated testing into GitHub CI/CD workflows to monitor front-end stability.

Software Engineer, Workflow Automation

Feb. 2022 – April 2024

Abraxis Networks

Phoenix, AZ

- Supported a managed services firm focused on streamlining business logistics and financial workflows for the hospitality sector.
- Built a Java automation engine to parse PDF data and synchronize financial entries with QuickBooks for multi-location clients.
- Designed and implemented UI/UX solutions for batch-processing digitized datasets to improve efficiency.
- Authored and managed QA test suites using Selenium to validate stability across SaaS-based business tools.

Software Engineering Intern, Digital Security & Media

May 2019 – May 2020

Nagra Kudelski

Phoenix, AZ

- Assisted a global leader in digital security in developing the myCinema content distribution network for theaters.
- Engineered Java-based crawlers to automate data collection from 200+ theater websites.

TECHNICAL PROJECTS

Gauntlet Development Harness | github.com/johnpletka/gauntlet | *Open Source Contributor*

- AI software development harness for spec-driven development.
- Multi-agent orchestration engine that breaks complex PRDs into context-aware phases, with automatic adversarial review and correction cycles at every stage.

Linear Algebra Hub | basis.pletkalabs.dev | *Creator & Developer*

- Built an interactive linear algebra learning platform in React, TypeScript, Vite, and Tailwind spanning a full course from systems of equations through vector spaces and linear independence.
- Integrated the Gemini API for generated explanations, rendered rich LaTeX math with KaTeX, added interactive graphing with MafS, and supported PDF course-material ingestion.

Green on Demand | greenondemand.ai | *Lead AI Developer*

- Collected and validated renewable energy-system datasets supporting reliability, compliance checks, and early fault detection.
- Built analysis scripts and dashboards to track load behavior and support power-study evaluations for multi-industry projects.
- Mapped system performance to rebate and incentive compliance requirements and prepared technical summaries of equipment performance, deviations, and corrective actions.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, SQL, PostgreSQL, C, C++, C#

AI & Agentic: Agentic Systems, Multi-Agent Orchestration, Model Context Protocol, LangChain, LangGraph, RAG, Vector Databases, Evaluation Harnesses, Guardrail and Policy Engines, Prompt & Context Engineering, Chain of Thought, Token Optimization, LLM APIs, Claude, OpenAI, Gemini

Backend & Data: Next.js, Node.js, Java Spring Boot, REST API Design, Prisma, PostgreSQL, NextAuth, Stripe, Zod, Data Modeling

Frontend: React, TypeScript, Tailwind CSS, Radix, shadcn/ui

Cloud & DevOps: AWS, S3, EC2, Google Cloud, Vercel, Docker, Git, GitHub Actions CI/CD, Vitest, Playwright, Selenium

EDUCATION

Arizona State University

Tempe, AZ

Bachelor of Science in Computer Science

- Specialization in Artificial Intelligence and Advanced Software Engineering Architecture.