

Maxwell Klema

Fort Wayne, IN | 330-550-1055 | maxklema@gmail.com | [linkedin.com/in/maxwell-klema](https://www.linkedin.com/in/maxwell-klema) | github.com/maxklema

EDUCATION

Purdue University Fort Wayne – B.S. Computer Science | GPA: 3.97/4.0 | Fort Wayne, IN

August 2023 — May 2027

Leadership and Activities: Chapman Scholar (full-ride merit scholarship), LEAD Mentor

SKILLS

Languages: Python, Java, TypeScript, C, JavaScript, Bash, Swift, HTML, CSS

Frameworks and Libraries: Node.js, Next.js, React, React Native, DBs (MongoDB/SQLite), Angular, Flask, Express.js

Tools and Platforms: Git, GitHub Actions, Docker, Kubernetes, GCP (GKE/GCE/GCS), Harness, Datadog, Unix/Linux, NGINX, Proxmox

General CS Concepts: CI/CD, Distributed Systems, REST APIs, Networks (IP/TCP/HTTP/DNS), Operating Systems, Agile

EXPERIENCE

Software Engineering Intern

May 2026 — August 2026

PayPal | Austin, TX

- Architected and developed HPED (Harness Pipeline Error Diagnostics) end-to-end, PayPal's first agentic CI/CD pipeline failure diagnostics engine, building a TypeScript framework that identifies root causes and remediation steps from Harness, GitHub, Confluence, and Datadog data, reducing dependence on manual support ticket escalations.
- Launched a CLI and web application atop HPED, enabling self-service debugging across 10+ engineering teams, supporting 100+ diagnostic sessions and achieving 85% root-cause identification accuracy during alpha testing.
- Engineered HPED's stateful agent orchestration on an MCP-style architecture, dynamically routing across 170+ custom diagnostic tools, including configuration drift detection, execution analysis, and infrastructure validation, to resolve complex pipeline failures.
- Partnered with Harness platform teams to create the first catalog of 40+ CI/CD failure patterns for Harness's error-classification initiative and implemented pipeline-ownership classification for downstream reliability and operational metrics.

Software Development Intern

May 2025 — August 2025

Medical Informatics Engineering | Fort Wayne, IN

- Spearheaded and released a company-wide virtualization management platform using Proxmox VE, enabling 30+ company developers to quickly deploy over 75+ containers in isolated environments, accelerating testing cycles across internal teams.
- Automated deployment workflows with a custom CI/CD Pipeline using GitHub Actions, reducing manual setup time and improving runner and container creation and management by 30%, allowing developers to deploy their applications.
- Integrated custom security and threat mitigation rules and active response scripts into our cluster using Wazuh, reducing SSH brute-force attack volume by 99.3%.

Software Development Intern

May 2024 — August 2024

Medical Informatics Engineering | Fort Wayne, IN

- Developed WebChart Go, a mobile application using React Native and Expo, enabling secure authentication and streamlined patient management across WebChart portals.
- Optimized WebChart chart exporting with multi-threading, improving upload speed by 90% in high-volume patient data handling.
- Designed a reusable Node.js NPM package for WebChart EHR integration, managing 100,000+ records.
- Collaborated with a peer to prototype a real-time, proximity-based audio-conferencing app using Swift, React, and the Opus Encoder, tuning audio encoding/decoding parameters to deliver a working low-latency demo.

Web Development and Design Intern

June 2022 — December 2022

CodeClouds | Fort Wayne, IN

- Created and deployed 5+ client websites using HTML, CSS, and JavaScript, including the [Arise Church](#) website with embedded newsletters, live sermon streams, and interactive donation cards, ensuring mobile responsiveness and improved UX across builds.

PROJECTS

Big Blue Golf | *Flask, SQLite, HTML, CSS, JavaScript* | [GitHub](#)

- Created and launched a full-stack live scoring application for high school golf, supporting 10+ tournaments and 150+ players, with event creation and sharing features for coaches and spectators.
- Optimized backend data flow and query handling to deliver leaderboard updates and live scoring reports to 2,000+ spectators.

Summify | *Node.js, Flask, JavaScript, Gemini API* | [Chrome Web Store](#), [GitHub](#)

- Developed a Featured Chrome Extension with 600+ active users that improves content consumption by summarizing over 200 web pages and YouTube videos daily in multiple languages.