Maxwell Klema

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EDUCATION

Bachelor of Science in Computer Science | **GPA:** 4.0/4.0   *August 2023 — Expected May 2027*
Purdue University Fort Wayne | Fort Wayne, IN
Leadership and Activities: Chapman Scholar (full-ride merit scholarship), LEAD Mentor

SKILLS

Languages: Python, Java, C, JavaScript, Bash, TypeScript, HTML, CSS,
Frameworks and Libraries: Node.js, React, React Native, SQLite, Angular.js, Flask, Express.js, Wazuh, NGINX, Kubernetes
Tools and Platforms: Git, GitHub Actions, Jira, JSON, Ansible, Docker, Unix/Linux, Proxmox VE
General CS Concepts: CI/CD, Automated Development, REST APIs, Networks (IP/TCP/HTTP/DNS), Operating Systems, Agile

EXPERIENCE

Software Development Intern   *May 2025 —August 2025*
Medical Informatics Engineering | Fort Wayne, IN

- Spearheaded and launched 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 automatically.
- Integrated custom security and threat mitigation rules and active response scripts into our cluster using Wazuh, reducing SSH brute force invasion attempts by 99.3%.
- Created a centralized documentation hub at https://opensource.mieweb.org using React, Docusaurus, and TypeScript, streamlining cluster onboarding and setup.

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's Chart Export Tool 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.
- Researched and prototyped a proximity-based, real-time audio-conferencing application, utilizing Swift, React Native, and Opus Audio Encoder.

Web Development and Design Intern   *June 2022 — December 2022*
CodeClouds | Fort Wayne, IN

- Redesigned the Arise Church website, embedding newsletters, live sermon streams, and interactive donation and connection card forms to improve user engagement and accessibility.
- Created and deployed 5+ client websites using HTML, CSS, and JavaScript, ensuring mobile responsiveness and improved UX.

PROJECTS

Summify | *Node.js, Flask, JavaScript, Gemini API* | *GitHub, Chrome Web Store*

- 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.

Big Blue Golf | *Flask, SQLite, HTML, CSS, JavaScript* | *GitHub*

- 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.
- Engineered robust backend infrastructure to handle concurrent user and spectator requests, enabling up-to-date score reports during tournaments for 2,000+ spectators.
- Collaborated with stakeholders and 15+ players to design user-friendly interfaces, improving platform adoption for coaches and players.