Willem Crone

Software Engineer II | Full-Stack Developer

✉️ will.crone11@gmail.com | 📱 540-797-7345 | 📍 Nashville, TN
🔗 [LinkedIn](#) | [Portfolio](#)

Professional Summary

Experienced Software Engineer II with 4 years of full-stack development expertise, specializing in enterprise web applications and mobile development. Proven track record of leading complex healthcare and enterprise projects serving millions of users, with strong experience in WordPress, Drupal, React, and modern web technologies. Demonstrated leadership in mentoring developers and driving technical modernization initiatives that improved performance, security, and maintainability across multiple large-scale projects.

Technical Skills

Languages: HTML, CSS, SCSS, JavaScript, jQuery, TypeScript, PHP, Python
Frontend Frameworks: React, React Native, Next.js, Ionic, Tailwind CSS
Backend/CMS: WordPress, Drupal, Gutenberg, ACF, Twig
Cloud & DevOps: AWS (Amplify, CloudFront, S3, CloudSearch), Azure, Docker, Jenkins, GitHub Actions, Bitbucket Pipelines
Databases & Search: Firebase, Solr, Pantheon, Yext, Relevanssi
Tools & Platforms: Git, GitHub, Bitbucket, Jira, Confluence, Pantheon, Acquia, Google Cloud Console
APIs & Integrations: Google Maps/Places, Epic, MyChart, Press Ganey API, Yext
AI Tools: Cursor, Claude Code, Github Copilot, MCPs

Professional Experience

Software Engineer II | Modea | Nashville, TN

January 2022 – Present *(Promoted from Software Engineer I after 1.5 years)*

Enterprise Healthcare Web Development & Technical Leadership

Keck Medicine of USC *(Lead Developer, 2+ years)* | [keckmedicine.org](#)

- Led full website redesign consolidating 23 sub-sites into unified WordPress enterprise application serving ~1 million monthly users
- Architected and implemented custom Find a Location and Find a Provider search tools with Google Maps integration

- Built global search functionality using Pantheon Solr, significantly improving user experience and content discoverability
- Developed comprehensive template library for service lines, centers, programs, conditions, treatments, blogs, and events
- Mentored client development team with weekly training sessions for 6 months, establishing internal WordPress expertise
- Delivered performance improvements that helped outrank LA-area healthcare competition in SEO metrics

Vanderbilt Health Ecosystem *(Co-Lead Developer, 2+ year)* | vanderbilthealth.com | childrenshospitalvanderbilt.org | myhealthwalkin.com

- Inherited and modernized complex 6-year-old headless Drupal ecosystem (3 frontends, search app, component library)
- **Technical Modernization Achievements:**
    - Consolidated 6 repositories into 3, eliminating code duplication and reducing maintenance overhead
    - Migrated from deprecated Amazon Beanstalk to AWS Amplify, improving performance and eliminating server management
    - Completed Next.js upgrade and app router migration, requiring near-complete frontend refactor
    - Reduced acceptance test runtime from 10 minutes to 2 minutes through concurrent execution
    - Decreased security vulnerabilities from 1,100+ to 250 through dependency updates and Snyk integration
- Implemented complete retheme of Vanderbilt Children's Hospital, modernizing user experience
- Created dynamic Drupal module for automated Yext integration, streamlining doctor data synchronization
- Developed automated condition/treatment page generation from Staywell API, saving significant content editor time

Vanderbilt Specialty Pharmacy *(Lead Developer)* | vanderbiltspecialtypharmacy.com

- Led full website redesign using atomic design principles and component-based architecture
- Delivered project 2 months ahead of schedule, creating 20+ reusable components across 5 page templates
- Built scalable component library designed for reuse across 500+ sites in Vanderbilt ecosystem
- Successfully addressed diverse user needs for patients, manufacturers, providers, and researchers

Mobile Application Development

MHO Reflections Companion *(Co-Lead Developer)* | Reflections Companion

- Built mental health companion mobile app from scratch using Ionic, React, and TypeScript
- Implemented comprehensive feature set including user profiles, daily check-ins, mental health assessments, data visualization, and journaling interface
- Developed automated protocols for symptom-based support recommendations
- Successfully launched on both iOS App Store and Google Play Store, serving 50+ active users

Additional Enterprise Projects

Luminis Health *(Supporting Developer)* | luminishealth.org - Supported post-launch stabilization and feature development, focusing on MyChart integration and innovative Find Care tool implementation

Chesapeake Regional Health System *(Lead Developer)* | chesapeakeregional.com - Modernized legacy infrastructure by implementing Bitbucket pipelines, upgrading Angular dependencies from v9 to current, and automating Press Ganey API integration for doctor reviews

Siteman Cancer Center *(Lead Developer)* | siteman.wustl.edu - Current project, with work kicking off in the spring of 2026. Currently consulting on the full website redesign project while managing the maintenance of the current site. Achievements thus far include successfully migrating from on-premises to Pantheon hosting, and developing specialized pediatric cancer content templates

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Leadership & Mentoring

WordPress Technical Expert & Mentor

- Designated internal WordPress specialist responsible for training all new hires requiring WordPress expertise
- Developed comprehensive training program including documentation, hands-on exercises, and 3-month learning timeline
- Successfully mentored 2 internal developers and 1 client developer through structured programs
- Created internal best practices and standards adopted company-wide

Technical Consultation & Project Leadership

- Served as lead technical consultant and primary developer for 3 major enterprise clients
- Collaborated with project managers to guide strategic technical decisions and client relationships
- Maintained responsibility for technical architecture decisions across multiple concurrent projects

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Education

Full-Stack Development Certificate | Career Foundry | 2021

Bachelor of Music, French Horn Performance | Cleveland Institute of Music | 2020

Key Achievements

Enterprise Scale Impact

- **Keck Medicine USC:** Consolidated 23 sub-sites into unified platform serving ~1 million monthly users, dramatically simplifying technical architecture while improving SEO performance to outrank LA-area healthcare competition
- **Vanderbilt Specialty Pharmacy:** Delivered complete website redesign 2 months ahead of 6-month timeline, creating scalable component library designed for reuse across 500+ sites in Vanderbilt ecosystem

Technical Infrastructure Modernization

- **Vanderbilt Health Ecosystem:** Transformed 6-year-old legacy system by consolidating 6 repositories to 3 (50% reduction), migrating from deprecated AWS Beanstalk to Amplify hosting, and completing full Next.js modernization requiring near-complete frontend refactor
- **Performance Optimization:** Reduced acceptance test runtime from 10 minutes to 2 minutes (80% improvement) and implemented live reload functionality, eliminating 60-70 second build times for local development
- **Security Enhancement:** Decreased security vulnerabilities from 1,100+ to 250 (77% reduction) through systematic dependency updates and Snyk integration

Automation & Process Innovation

- **Chesapeake Regional:** Brought outdated project into modern era by implementing first-ever Bitbucket pipeline, automating configuration sync, and upgrading Angular from v9 to current version
- **Custom Development:** Created automated Press Ganey API integration for nightly doctor review updates and built innovative site-crawling scripts for automated 200-response testing and HTML content matching between environments
- **Content Automation:** Developed dynamic auto-generation system for condition/treatment pages using Staywell API, saving content editors countless hours while maintaining editorial control

Cross-Platform Development Success

- **Mobile Innovation:** Built and launched MHO Reflections Companion mobile app from scratch, now serving 50+ mental health patients with comprehensive tracking, assessment, and journaling functionality across iOS and Google Play stores
- **Healthcare Integration:** Successfully implemented complex healthcare integrations including Epic, MyChart, Yext, and multiple provider data systems across enterprise-scale applications

Leadership & Knowledge Transfer

- **Internal Expertise Development:** Established company-wide WordPress training program with 3-month curriculum, mentoring 2 internal developers and 1 client developer through structured learning paths
- **Client Relationship Management:** Served as primary technical consultant for 3 major healthcare enterprise clients over multiple years, maintaining trusted advisor relationships while delivering consistent technical excellence