

NATE CLONCH

Full-Stack Software Developer

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PROFILE

Full-stack developer with agency, independent, and international IT experience. Created a language-analysis desktop application adopted internationally by a mission organization and a hardware-connected monitoring system that initiates clean server shutdowns under unsafe conditions. Own work from problem discovery through implementation, deployment, troubleshooting, and ongoing user support.

PROFESSIONAL EXPERIENCE

Software Developer & IT Specialist

Ethnos360 / New Tribes Mission | United States & Papua New Guinea | 2016-2026

- **Created Discourse Analysis (DA)**, an Electron desktop application adopted by the mission in Brazil, Senegal, Papua New Guinea, and other countries, and used to train incoming missionaries at its Missouri training center.
- Built the initial DA prototype during a one-week course in 2021 after existing software failed users. Developed it into an offline analysis editor supporting four teams studying previously undocumented languages in PNG; continue to incorporate international user feedback.
- Implemented keyboard-driven annotation, editable relationship diagrams with label-frequency counts, AND/OR filters, autosave, and recoverable drafts. Added configurable grammar, discourse-specific templates, and participant reordering to automate work previously managed in Excel.
- **Built ServerWatch** for an IT office facing frequent power outages and relying on a custom battery backup system. Integrated Raspberry Pi and Yoctopuce hardware with a Yii application to track battery voltage and server-room temperature, email the IT team, and initiate clean server shutdowns when conditions threatened operation.
- Built Budget Builder for technology-team budgeting and PAM, a locally hosted Craft CMS project and asset management application with internal messaging. Designed a wireless network connecting three remote team residences using Ubiquiti NanoStation equipment.

Independent Software Developer

Self-Employed | Winston-Salem, NC | 2014-Present

- **SupporterLens**: Launched a multi-user donor-support application in two weeks using AI-assisted development. Review code and own deployment, debugging, maintenance, and server administration for a Laravel/React application with spreadsheet imports, giving insights, access controls, and billing workflows.
- **Riverbend Grill**: Delivered and deployed a restaurant website in six hours, including logo vectorization, using AI-assisted development; continue to maintain the site and its hosting environment.

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Full-Stack Software Developer | Professional experience continued

PROFESSIONAL EXPERIENCE, CONTINUED

Independent Software Developer, continued

Self-Employed | Winston-Salem, NC | 2014-Present

- **Just-Type:** Designed and shipped a macOS manual-transcription application with AI assistance, directing requirements, UI/UX, implementation, testing, and debugging.
- **City Beverage and Delight in Grace:** Independently developed custom PHP websites with Google Sheets-backed data and content workflows. Built scheduling, registration, authentication, and administrative functionality across additional projects.

Web Developer

Airtype | Winston-Salem, NC | 2015-2016, 2020

- Returned in 2020 for approximately eight months, reporting directly to the agency owner. Helped oversee application implementation and troubleshoot issues across team codebases, supporting coworkers in resolving difficult development problems.
- Collaborated on the Angular frontend for BCS America and worked with teammates through its successful 2015 launch. Supported winstonsalem.com for the Winston-Salem Chamber of Commerce with ongoing frontend/backend updates and major deployments.
- Developed major Shopify implementations for Camel City Goods across two redesigns. Built and maintained client websites, CMS functionality, and API integrations using JavaScript, PHP, and existing agency codebases.

Call Center Associate

Wake Forest University Baptist Medical Center | Winston-Salem, NC | 2014-2015

- Independently built a network-restricted, searchable digital phone directory to replace time-consuming physical-directory lookups. After a demonstration requested by department leadership, the IT department implemented the concept in SharePoint.

TECHNICAL SKILLS

Languages & interfaces: PHP, JavaScript (ES6+/JSX), React, Angular, Electron, HTML, CSS/SCSS.

Applications & data: Laravel, Yii, Craft CMS, Shopify, REST/JSON APIs, MySQL/MariaDB, Google Sheets API.

Tools & operations: Git, Composer, Node.js/npm, Webpack, Gulp, Bash, Apache, IIS, Raspberry Pi, Ubiquiti; deployment, server administration, hardware integration, AI-assisted development.

EDUCATION & TRAINING

Bachelor of Cross-Cultural Studies

New Tribes Bible Institute / New Tribes Missionary Training Center | Completed 2018

Four-year training sequence in biblical studies and cross-cultural work, including communication, language acquisition, linguistics, and discourse analysis. Completed an intensive seven-month linguistics program with a six-week Cherokee language practicum in Oklahoma.