Vincent **Trinh**

SOFTWARE ENGINEER

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Experience

Summit Technology   *Pleasant Hill, CA*

LEAD EMBEDDED SYSTEMS SOFTWARE ENGINEER & WEB ADMINISTRATOR   *Mar. 2017 - Present*

- Developed the defining feature of the company's latest enterprise-level power analyzer; I oversaw each aspect of the software development life-cycle (SDLC) from planning and analysis, architectural design, software development, testing and deployment, to maintenance, in conjunction with the CEO, sales and marketing team, hardware team, and software team.
- Built a fundamental graphical user interface (GUI) with its own API, spanning 30 files and 28,000 lines of C code on the ARM processor, using the STemWin Embedded Graphics Library for the power analyzer's LCD display – the aforementioned defining feature.
- Analysis and processing of voltage, current, power, harmonic, and other related data to create real-time graphs and tables for detailed power analysis.
- Created a remote control system that can send screen data and receive commands under strict space and time constraints using custom designed data packets in conjunction with the software team.
- Comprehensive usage of the I-Jet Trace debugger to determine actual run-time and ensure that code meets strict time and space constraints on the embedded target
- Managed website security by maintaining and implementing HTTPS & SSL security, firewalls, and malware scanners; discovered and removed web injection malware, prevented denial of service attacks.
- Managed website infrastructure including web server, web host, domain host, mail servers, file transfer protocol (FTP), and user access.
- Created and maintained web content, implemented e-commerce shopping cart and products; kept website up to date, backed-up, and optimized for speed and web searches (SEO).

Summit Technology   *Pleasant Hill, CA*

WEB DEVELOPER   *Jun. 2016 - Feb. 2017*

- Built and maintained the company website, which is still in use to this day.
- Made thoroughly researched executive decisions, such as using the WordPress Framework so that the website could be easily added to, edited, and maintained by the sales and marketing team.
- Developed a limited in-house HTML/CSS API such that a layperson could easily create specialized design content such as sliders, menus, and product pages.
- Built a custom quote request form with complex conditional logic, validation, data sanitization, informative tool-tips and dialogues, submission logging, and SMTP email generation with attached PDF invoices and estimates using the jQuery UI API and PHP DomPDF API.
- Comprehensive documentation of the API and custom form for future use and development.
- Website speed and search engine optimization (SEO) using a wide variety of audit tools such as Google Analytics, Google PageSpeed, Google Lighthouse, GTMetrix, and WPRocket.

Skills

Programming C, C++, Python, Java, jQuery, JavaScript, PHP, HTML/CSS/XML, SQL, MATLAB, R

Tools GIT, TortoiseSVN, STemWin Embedded Graphics Library, IAR ARM Embbeded Worbench, Visual Studio, WordPress

Other Fluent in English and Vietnamese, some Japanese and French, and limited Korean.

Education

University of California, Davis   *Davis, CA*

BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND ENGINEERING   *Aug. 2012 - Mar. 2017*