

# Craig Citro, Developer

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**Github:** <https://github.com/ccitro/> | **LinkedIn:** <https://www.linkedin.com/in/craig-citro/>

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**SUMMARY** Experienced Software Engineer with a demonstrated history of working in the retail industry. Strong engineering professional skilled in JavaScript, PHP, Kotlin, SQL, and more.

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**EDUCATION** **University of Illinois at Urbana-Champaign** 1999-09-15 — 2004-05-15  
Bachelor of Science - Computer Engineering

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**SKILLS**

**Frontend:** Typescript, Javascript, HTML/CSS, Tailwind, React

**Backend:** Node.js, Python, Go, PHP

**Android:** Kotlin, Java, Room, Compose

**Database:** MySQL, SQLite, Oracle

**Systems:** Nginx, Apache, Linux, Bash

**Tooling:** Docker, esbuild, phpstan

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**EXPERIENCE** **Abt Electronics** | Software Architect 2014-06-01 — Present  
<https://www.abt.com>

Largest independently-owned, single-location retailer of electronics, appliances, and home goods in the USA.

- Improved developer productivity, accountability, and reliability by setting up CI/CD using Gitlab, Docker, and automated testing
- Built out frontend build system supporting React, Typescript, and in house widgets/packages using esbuild
- Designed and developed container systems for local development and per-project QA environments using Docker Swarm, Vue.js, and PHP
- Experimented with and implemented various AI/ML systems, including LLMs to assist with content generation
- Continued with development and maintenance of new software applications and features throughout the company

**Abt Electronics** | Senior Software Developer 2012-03-10 — 2014-06-01  
<https://www.abt.com>

- Developed an in-house Android application used by Abt's delivery and service fleets using Java, Kotlin, SQLite/Room, and Compose
- Built a custom Point of Sale system (POS) used for sales and service using PHP, Typescript, React, and Oracle
- Implemented several payment solutions such as payment gateways, EMV, NFC, PayPal, Affirm, Synchrony, Bitcoin, and more

- Lead the initiative to bring all prior and future code into source control systems using SVN and eventually git
- Integrated credit card reading devices with point of sale system using C# and JavaScript
- Developed new featured for ecommerce website such as search, filtering, fulfillment, and discounts using PHP and jQuery

Lead the development of the growing digital imaging division of this leading X-ray service and repair company

- Created a PACS (picture archiving and communication system) using PHP, HTML, Javascript, MySQL and C#
- Designed an inventory management system that interfaced with barcode scanners
- Created a sales lead tracking system

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## PROJECTS

### **Abt Point of Sale**

- Written using PHP, Typescript, and Oracle, including some React components
- Implemented a variety of payment methods, including handling account data in a PCI compatible way using end to end encryption and tokenization
- Handled the scheduling of deliveries and service, including fulfillment integrations, routing systems, and inventory calculations
- Developed flexible and evolving solutions for regulations that differ by market such as taxes, fees, disclosures, and more
- Ensured accurate salesperson usage by offering dynamic rules-based suggestions, and tracking and reporting on various metrics
- Maintained the business critical application while also enhancing the codebase to support for modern features like Typescript and React

### **Abt Fleet App**

- Android app written using Kotlin and Compose, with a backend written in PHP and MySQL
- Replaced a costly and time consuming system that relied on printing a ticket for every stop
- Allowed drivers to visualize their routes in both list and map styles, and record their progress throughout the day
- Tracked the driver's location throughout by logging over 500 million GPS updates, and created map visualization tools for customer service and managers
- Improved the information available about Abt deliveries by capturing over 14 million photos, and additional data such as waivers, and digital notes and signatures

### **Performance Management Application**

- Written using PHP, Javascript, and Oracle
- Replaced a paper system, which reduced costs and improved efficiency while also providing an audit trail
- Increased the information available to department managers by providing reporting of their team's performance

- Improved the visibility to employees by providing a portal to view their performance and bonuses
- Allowed for the automation of certain repeating entries, reducing the time spent on data entry

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AWARDS

**Employee of the Year**  
Abt Electronics

2013-12-01