

COLBY REINHART

Software Engineer

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CAREER

Discount Drug Mart – Junior Software Developer

3 internship summers, June 2023 to present

- In-house cash register software development and maintenance
- Internal web applications development
- Internal automation development

Notable Solo Projects

- **Implemented support for AI-8112 coupons on our internal cash register software.** Researched, understood and implemented 8112 specification from documentation, implemented API client for central authority communication, and developed business logic for processing, redeeming, and clearing coupon offers. API client is capable of secure authentication via data tokens and credentials and uses standard TLS encryption.
- **Developed an internal system for automatically creating, customizing, and printing shelf tags.** Web interface allows employees to print item tags. This application gathers data from the item database, programmatically creates a PDF using java PDFBox, and sends the document to the user for printing.
- **Developed an internal gift cards system in Java.** Converted the in-house gift cards system from IBM RPG to Java. Developed new database schemas, implemented data access models, and implemented usage of these models in the C++ cash register codebase via secure remote procedure calls. Also wrote programs to handle card number and PIN generation, deletion, and other maintenance.

PERSONAL PROJECTS

Webserver from Scratch

<https://github.com/ColbyReinhart/webserver-from-scratch>

A simple bare-bones web server written “from scratch” using only raw UNIX sockets, system calls, and the C standard library.

Paper De-shredder

<https://github.com/JMANN240/deshredder>

Capable of consistently reconstructing strip-shredded papers of up to 50 pieces using image processing. A research project which aims to identify and address the threat modern computing poses to information security.

Roku Remote

<https://github.com/ColbyReinhart/roku-remote>

A simple home server that leverages Roku TV wifi protocols to let you control your Roku TV from your mobile browser. Uses a raspberry pi intermediary client to circumvent CORS restrictions and allow for automatic routines.

Education and Academics

Bachelors of Computer Science

Minor in Economics

Kent State University

4.0 GPA / Summa Cum Laude

Honors College Member

2x Choose Ohio First Annual Research Symposium Award Winner (2021 and 2022)

Computer Science Tutor

Proficiencies

Programming languages: C, C++, Java, C#, Rust, Javascript, Bash, Python

Technologies and frameworks: SQL, HTML/CSS, Unity3D, Java Server Pages, Tomcat, Flask

Tooling Experience

Operating Systems: Windows, Linux (Arch, Debian, Ubuntu)

Text editors: VSCode, vim

Terminal utilities: git, GDB, systemd, gradle, bash scripting, make

Package managers: apt, pacman, npm, pip

Talents

Leadership

Communication skills and personality

Independent learning capability

Project planning and management

Requirement elicitation and documentation

Things I am Learning

Frontend web frameworks (React)

Neovim

Embedded Systems Programming