TYLER PERKINS

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WORK EXPERIENCE

Etactics, Hudson, Ohio *May 2022*
Software Developer

- Developed a custom database snapshot tool leveraging Docker and MySQL, increasing development speed
- Refactored back-end data structures to utilize a custom made, lazy-loading, object relational mapping approach to data fetching, increasing maintainability significantly
- Consistently meet and exceed sprint plan estimates, delivering manually tested, stable code
- Design full-stack solutions using Java and jquery
- Doubled internal documentation on development processes, decreasing developer on-boarding time.

Kent State University, Kent, Ohio *January 2020 - August 2020*
Software Developer

- Analyzed client needs for an internal attendance application, and developed a web application in 3 months leveraging ASP.NET Core to meet client requirements, delivering an application still in use with two thousand concurrent users.

EDUCATION

Kent State University, Kent, Ohio *May 2022*
Bachelor of Science : Major Computer Science Overall GPA: 3.5

Specialized in Embedded Systems and Information Security

TECHNICAL STRENGTHS

Technologies
MySQL, Java, Vue.js, ASP.NET Core, Linux/Unix, Kernel modules, RTOS, git, RESTful APIs, nginx, Docker
Languages
C, C++, C#, Java, JavaScript, PHP, Python, Bash, Go, x86 Assembly, Verilog HDL
Miscellaneous Tools/Technologies
IoT Developemnt (ESP32, ATMega328P), UML, SysML, Gitlab CI/CD, Drone CI/CD, Ham Radio (Technician Class, KE8TIZ), Software Defined Radio (RTL-SDR, HackRF), 3D-printing

PROJECTS

Alarm Clock *November 2022*
An IoT alarm clock leveraging an ESP32 running RTOS, capable of being contrlled via a REST api. Can speak messages using the *eSpeak* library at set alarm times.

Syllabus Generator *January 2022 - May 2022*
A web application for automating the creation of Syllabi for the Computer Science department at Kent State. Created to customer specification to create consistent, compliant syllabi across the department, leveraging Flask, MongoDB, and python-docx. Created as a team capstone project, for Kent State University.

Simple Dashboard *August 2021 - December 2021*
A lightweight dashboard/digital signage application designed with the Raspberry Pi single board computer in mind. Highly customizable using direct SDL2 drawing functions. Very performant on low end hardware, leveraging purpose built data structures including an LRU cache implementation. Created for personal use as a smart home centerpiece.