

# TYLER PERKINS

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## WORK EXPERIENCE

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### **Etactics, Hudson, Ohio**

*May 2022*

*Software Developer*

- Architected and implemented a suite of aggregate objects that encapsulate business logic and lazy-load data from MySQL, improving application consistency, reliability, and maintainability significantly, leading to faster development times and fewer bugs
- Architected and implemented a CQRS-style caching scheme using both in-memory data structures and a durable MySQL snapshot, decreasing page load time from 10 seconds to 500 milliseconds
- Implemented an application changelog newsletter, increasing communication between development teams and stakeholders
- Developed a custom database snapshot and replication tool leveraging Docker and MySQL, increasing development speed
- Trained new developers on development processes and best practices, decreasing developer on-boarding time
- Design full-stack solutions using Java and jquery

### **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

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### **Georgia Institute of Technology, Atlanta, Georgia**

*January 2024*

Masters of Science : Major Computer Science

Specializing in Computing Systems

*Selected Coursework:* Distributed Systems

### **Kent State University, Kent, Ohio**

*August 2019 - May 2022*

Bachelor of Science : Major Computer Science

Overall GPA: 3.5

Specialized in Embedded Systems and Information Security

*Selected Coursework:* Operating Systems, Design and Analysis of Algorithms, Systems Programming

## TECHNICAL STRENGTHS

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### **Technologies**

MySQL, Java, Springboot, Vue.js, ASP.NET Core, Linux/Unix, Kernel modules, git, nginx, Docker, Kubernetes, AWS tooling

### **Languages**

C, C++, C#, Java, JavaScript, PHP, Python, Bash, Rust, Go, x86 Assembly, Verilog HDL

### **Miscellaneous Tools/Technologies**

IoT Developemnt (ESP32, ATmega328P, RP2040), UML, SysML, Gitlab and Drone CI/CD, Ham Radio (Technician Class, KE8TIZ), Software Defined Radio (RTL-SDR, HackRF), 3D-printing, FreeCAD, EasyEDA, Welding, Steel/Wood Fabrication

## PROJECTS

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**Homelab***March 2020*

A self hosted homelab cluster running on a combination of retired enterprise and commodity hardware. Striving to replicate an enterprise data center at home. Implemented a self hosted S3, AWS lambda-like, and Kubernetes cluster running over 70 containers with two availability zones.