Drew Ripberger

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EDUCATION

The Ohio State University   Columbus, OH
Bachelors of Science in Computer Science and Engineering   *Aug. 2020 – Expected May 2024*

EXPERIENCE

IsoDiff Research Group   Jan. 2019 – Present
The Ohio State University   *Columbus, OH*
- Developed a REST API using FastAPI and PostgreSQL to store data from learning management systems
- Developed a full-stack web application using Flask, React, PostgreSQL and Docker to analyze GitHub data
- Explored ways to visualize GitHub collaboration in a classroom setting

Summer Engineering Intern   Mar. 2020 – Aug. 2020
Nirmata   *San Jose, CA (remote)*
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Artificial Intelligence Research Assistant   May 2019 – July 2019
Southwestern University   *Georgetown, TX*
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PROJECTS

kube-netc | *Go, Docker, Prometheus, Kubernetes, eBPF*   June 2020 – Present
- Developed a full-stack web application using with Flask serving a REST API with React as the frontend
- Implemented GitHub OAuth to get data from user's repositories
- Visualized GitHub data to show collaboration
- Used Celery and Redis for asynchronous tasks

Simple Paintball | *Spigot API, Java, Maven, TravisCI, Git*   May 2018 – May 2020
- Developed a Minecraft server plugin to entertain kids during free time for a previous job
- Published plugin to websites gaining 2K+ downloads and an average 4.5/5-star review
- Implemented continuous delivery using TravisCI to build the plugin upon new a release
- Collaborated with Minecraft server administrators to suggest features and get feedback about the plugin

TECHNICAL SKILLS

Languages: Go, Java, LaTeX, JavaScript, SQL
Developer Tools: Git, Docker, TravisCI, Kubernetes
Frameworks & Systems: eBPF, Linux, Prometheus

PUBLICATIONS

[1]   Y. Gan, X. Ren, D. Ripberger, S. Blanas, and Y. Wang. Isodiff: debugging anomalies caused by weak
      isolation. *Proc. VLDB Endow.*, 13(12):2773–2786, July 2020. ISSN: 2150-8097. DOI:
      10.14778/3407790.3407860.