

Dylan Estrada

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Work Experience

Aurora Innovation

Software Engineer I/II

Nov 2021 - Present

- Received company-wide award for quickly designing and implementing Perception's large-scale Continuous V&V process leading to perfect pipeline health and 50% reduction in runtime from previous process
- Created weekly job to update test datasets allowing for label fixes to be used 4 weeks faster while also providing a detailed report of how the changes impact metrics
- Designed tool to track, visualize, and link to recent PRs which impacted Perception's performance increasing change visibility and reducing regression triage time by over 90%
- Created Buildkite pipeline with daily/weekly comparisons of Perception performance with notifications of statistically significant regressed metrics sent to DRIs with a TP rate $>.99$
- Horizontally distributed key portions of the metrics pipeline, leading to a 300-minute speed-up of gating jobs and increasing developer velocity

Software Engineering Intern

May 2021 - Aug 2021

- Designed issueset structure and API which allowed users to create batches of label issues and submit them for relabeling, reducing turn-around time by 50%
- Performed label service database maintenance, updates, and created documentation of team processes for future users

Caesar Research Group

Undergraduate Researcher

Aug 2020 - May 2021

- Created low-latency, multi-user, Kafka based TCP server to allow for multithreaded communication between backend database, backend emulation, and frontend server
- Redesigned APIs between Unity VR project and cloud network, reducing latency by over 30%

Kohl's Technology

Software Engineering Intern

June 2020 - Aug 2020

- Developed Jenkins pipelines using Kubernetes, Ansible, and Docker to improve CI/CD operations reducing job runtime by 25%
- Updated network to help internal customers easily view allocated network space reducing related tickets by 95%

Education

University of Illinois at Urbana-Champaign
Bachelor of Science in Computer Engineering

Champaign, IL
Aug 2017 - May 2021

Skills

Programming Languages:

Python, C++, C, SQL, x86 Assembly, System Verilog

Technologies:

AWS, Buildkite, PostgreSQL, PyTorch, Pandas, Docker, Kafka, git

Project Highlights

Unix Operating System C, x86 Assembly

Programmed core functionality of custom Operating System with a team of 2 others. Functionality included processes, threads, scheduling, a file system, virtual memory, and multiple terminals.