Dylan Estrada

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Education

University of Illinois at Urbana-Champaign — Champaign, IL
Bachelor of Science in Computer Engineering *GPA: 3.1* — Aug 2017 - May 2021
Dean's List — Spring 2020

Work Experience

Caesar Research Group
Undergraduate Researcher — Aug 2020 - Present

- Assigned team members tasks based on experience levels, increasing team productivity and reducing turnover
- Created low-latency, multi-user, Kafka based TCP server to allow for multi threaded communication between backend database, backend emulation, and frontend server
- Established APIs for backend database, backend emulation, and frontend servers
- Compiled list of best practices to establish connection to backend cloud network for future onboarding and server expansion

Kohl's
Software Engineer Intern — June 2020 - Aug 2020

- Developed Jenkins Pipelines using Kubernetes, Ansible, and Docker to enhance CI/CD operations
- Updated network to help internal customers easily view allocated network space
- Expanded firewall rules to allow for more consistent internal access while preventing unwanted connections
- Demoed project functionality to internal customers and managers, including a recording to aid future users

Tri-The-Illini Triathlon
Assistant Race Director — May 2018 - May 2019

- Oversaw and delegated responsibilities to other members of the race organization committee
- Coordinated with local police and governments about road closures and location of EMS teams
- Created timetables for future race committees and streamlined process with local government

Terra Consulting Group Ltd
Technical Intern — June 2017 - Aug 2018

- Collaborated with Verizon, Sprint, and other mobile carriers in RF design and to implement new 5G and small cell technologies
- Utilized CAD to make changes to proposed work plans based on comments from inspectors and other contractors
- Taught other employees how to use Revit to model in 3D, allowing company to simulate its cell tower sites more accurately

Skills

Programming Languages:	Python, C++, C, Java, Groovy, PowerShell, x86 Assembly, System Verilog
Technologies:	git, Kubernetes, Docker, Jenkins, Ansible, Kafka, GCP, AWS, gdb, Jira
Coursework:	Data Structures, Algorithms, Computer Systems, Computer Vision, IoT, Autonomous Vehicles, CyberSecurity, Analog/Digital Signal Processing

Project Highlights

Unix Operating System *C, x86 Assembly*
Programmed core functionality with team of 2 others for custom Operating System written in C and x86 Assembly, including processes, threads, scheduling, a file system, virtual memory, and multiple terminals