

Dan Burger

Software Engineer

Denver, CO

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Work Experience

Lockheed Martin, Boulder, CO

June 2021 - Present

Software Engineer (May 2022 - Present)

- Designed and implemented a feature for Docker containerized software to deploy and run on 700+ customer machines to achieve a more secure, reliable and scalable satellite data distribution architecture over secure TCP and SFTP connections
- Developed a website using Django to allow hundreds of customers to request off-cycle changes to their connection configuration, saving our site operators the time and effort to implement these changes themselves
- Improved the validation process of 500+ configuration files in an XML database by writing an XML parser in Python, catching 20+ customer connection errors and saving the team 10+ hours of faulty manual validation every month when changes are entered
- Showcased 5 technical demos for system status GUIs with Kibana and containerized client software in a test environment to stakeholders and customers for the final signoff and completion of 5 major features

Software Engineer Associate (June 2021 - May 2022)

- Headed performance improvement initiative on our Elastic Stack to reduce storage size of Elasticsearch database by 25% and optimized data lifecycle for 60% less indices and 80% faster database queries. Automated setup with Ansible
- Maintained and enhanced mission critical features in C++ and Python by conducting code reviews, writing unit tests for 90% coverage, developing automated tests, and collaborated with site operators for 4 software releases to production

Buildout, Chicago, IL - Software Engineer Intern

May - August 2020

- Built a web service with Ruby on Rails to connect a mature Ruby on Rails codebase to Facebook, LinkedIn, and Twitter's RESTful APIs allowing customers to interact with social media
- Designed the front end UX/UI using React and Bootstrap to create a positive customer experience while they interact with the web service while collaborating with the Design Team and Head of Engineering

Northrop Grumman, Melbourne, FL - Electronics & Payload Intern

May - August 2019

- Investigated Docker in a Linux environment for use in running 200+ tests in parallel to cut down on test execution time and isolate environment breaking test failures
- Integrated Docker into existing Jenkins testing architecture using Dockerfiles and Docker Compose

Education

Purdue University, West Lafayette, IN

B.S. in Computer Engineering

Skills

Programming Languages: Python, C++, Java, Bash Scripting, Ruby, JavaScript

Technologies & Frameworks: Ruby on Rails, React, Django, GitLab CI/CD, Docker, Kubernetes, Linux, AWS, Apache Qpid, Git, Ansible, Elastic Stack, Agile Development, Object Oriented Design

Soft Skills: technical presentations, technical documentation, growth mindset, mentorship