William H. **Weiskopf**, IV

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"If you want to build a ship, don't herd people together to collect wood and don't assign them tasks and work, but rather teach them to long for the endless immensity of the sea." -Antoine de Saint-Exupéry

Experience

Oliver Wyman: Digital
Boston, Massachusetts

SENIOR SOFTWARE ENGINEER — *October 2017 – Present*

- Containerization and CI/CD specialist: modifying a diverse group of ten-plus projects to build and deploy continuously as microservices.
- Introduced framework around Alembic to encourage migration-based database deployments, decreasing build times and eliminating down-time, with arbitrarily scaling full-CI/CD.
- Championed modularization of the organization's auth system as a drop-in solution for our legacy applications – implemented it, picking up Express along the way.
- Spearheaded continual collection, tracking, and presentation of the consulting organization's projects and assets. Surfacing forgotten items, decreasing the Sustaining organization's seek time, and providing InfoSec auditability.

✎ Python · Docker · Jenkins Pipelines · Rancher · Node.js (Express & Vue) · Flask · Alembic · MS SQL Server · PostgreSQL · GraphQL · Confluence

Lockheed Martin: Space Systems
Littleton, Colorado

SOFTWARE ENGINEER – ORION: NASA'S NEXT MANNED SPACECRAFT — *September 2014 – Present*

- Principle architect in moving Orion ground software from pen and paper to full test automation, enhancing NASA requirement verification.
- Built a Python/LaTeX engine for creating NASA deliverables, cutting months of paperwork for engineers (per deliverable) to a day.
- Served as a subject matter expert for the flight software verification automation tiger team, sharing processes established while automating ground.
- Built a recursive-descent compiler for a templating language similar to Jinja2.
- Voluntteered for Code Quest, Lockheed Martin's computer programming competition for high school teams.

✎ Python · Pytest · LaTeX · Sphinx · Linux · Vim · Perforce · JIRA · Jenkins · Agile · Test-driven development · ELK (Elasticsearch, Logstash, Kibana)

Air Sciences, Inc.
Golden, Colorado

NETWORK ADMINISTRATOR — *November 2011 – March 2014*

- Purchased, set up, and maintained servers, laptops, and networks for a 50 person company.
- Introduced new processes such as a ticketing system, wiki, and KVM virtual machines – providing continuity and a knowledge base.
- Interviewed and trained three new administrators – utilizing the wiki to create reusable materials to accelerate the new hire process going forward.

✎ Django · Git · Mediawiki · Network configuration · Linux administration · User support

CSM Alumni Association
Golden, Colorado

SOFTWARE DEVELOPER — *August 2010 – April 2014*

- Web Development: website design, web app, newsletter, graphics, audio, and video.
- Data Specialist: updated and maintained alumni records database.

✎ Django · Wordpress · PHP · HTML/CSS · Audacity audio editing · GIMP image manipulation · Web design

Education

Colorado School of Mines (CSM)
Golden, Colorado

B.S. IN ENGINEERING, MECHANICAL EMPHASIS — *December 2013*

- Computer Science and Economics minors
- NASA Lunabotics Competition: built a full-size regolith collecting robot and competed with international teams at the Kennedy Space Center.
- FIRST Robotics Competitions: Mentored high school students in engineering princples. Refereed Colorado regional competitions (FRC and FLL).

✎ SolidWorks (FEA) · LabVIEW · C++ · Java · MATLAB · Python · Git · Arduino · Machine shop · Feedback controls

Projects

Containerized Server
2015 – Present

Converted an Ubuntu server into Docker containers running on RancherOS, with very robust file-integrity protection.

✎ Docker (RancherOS) · btrfs · UEFI · RAID · Samba · Mumble · Plex · Borg backup · Beets · NGINX · podbook · greg