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

Oliver Wyman is a consulting company, where I had the opportunity to work across a broad range of projects and roles. Some highlights below:

- DevOps: wrote idiomatic containers, stood up many projects with CI/CD into Kubernetes. Member of Special Interest Group to spread best practices.
  Synthesized an analytics stack to give consulting teams a platform for development, workflow scheduling, data operations, and execution.
- Webservices: primarily backends for analytics and database operations, interfaced with as REST and GraphQL API services.
  Developed a system that continuously collects & collates data on all of Digital projects/assets - providing InfoSec auditability, surfacing lost items, and decreasing seek time for the Sustaining organization.
- Data infrastructure: built tooling for consultants to use in ETL, workflow automation, schema management, and computational scaling.
  Built out a migration-based schema framework for a project with a major grocery retailer, eliminating database down-time.
- Sustaining: lead long-term operations for five projects in the mature phase of their lifecycle.

✎ Python · Kubernetes & Kustomize · Jenkins Pipelines · Prefect · Node.js (Express & Vue) · Flask · Alembic · MS SQL Server · PostgreSQL · GraphQL

Lockheed Martin: Space Systems
Littleton, Colorado

SOFTWARE ENGINEER - ORION: NASA'S NEXT MANNED SPACECRAFT
September 2014 - September 2017

- Principle architect in moving Orion ground software from pen and paper to full test automation, empowering NASA requirement verification.
- Built a Python/LaTeX-based 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.
- Voltunteer for Code Quest, Lockheed Martin's computer programming competition for high school teams.

✎ Python packaging · Pytest · LaTeX · Sphinx · Linux · Vim · Perforce · JIRA · Jenkins · Agile · Test-driven development · Elastic stack

Air Sciences, Inc.
Golden, Colorado

NETWORK ADMINISTRATOR (INTERN & PART-TIME)
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 SOFTWARE DEVELOPER - WEBSITE, NEWSLETTER, GRAPHICS, AUDIO, VIDEO
August 2010 - April 2014

Education

Colorado School of Mines (CSM)
Golden, Colorado

B.S. IN ENGINEERING, MECHANICAL EMPHASIS – COMPUTER SCIENCE AND ECONOMICS MINORS
December 2013

- 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) · C++ · Java · Python · Machine shop · Feedback controls · Git · Arduino · MATLAB · LabVIEW

Projects

SingToWho.site
June 2020

A COVID-19 inpired hack to keep people safe and engaged during the pandemic. When washing your hands, who should you sing happy birthday to?

✎ HTML, Javascript, CSS · Google Cloud Storage · Cloudflare DNS · Skeleton CSS

Containerized Server
2015 - Present

Homelab for experimenting with containers, virtualization, and services - with archive-class robust file-integrity protections.

✎ Docker (RancherOS) · ZFS · Traefik · RAID · btrfs · Samba · Mumble · Plex · Borg backup · Beets · NGINX