

Charles Fyfe

✉ ch@rles.uno

📧 charles.uno

📞 651-269-9245

📍 Minneapolis

Summary

Ten years experience with automation and analysis in Python. Fluent in Linux and shell scripting. Recent emphasis on DevOps and CI/CD/CT using Jenkins, Docker, and REST APIs. Comfortable mentoring interns, onboarding employees, and evangelizing new technologies.

Experience

Cray Inc: Intern → Engineer 3 → Engineer 4 *2014–Present*

- Rolled out a **Continuous Testing** solution for the Shasta product line. Secured VP buy-in, communicated requirements to dozens of product groups, and followed up on concerns.
- Designed a **Bash/Python** framework to execute tests on live mainframes. Ingested results into an **ELK** database. Forwarded failures to product owners on Slack via **REST API**.
- Wrote a **Groovy** pipeline to build, test, and distribute RPMs and Docker images in support of 100+ engineers. Illustrated pipeline best practices with annotated end-to-end examples.
- Crawled the **Jenkins REST API** to monitor deployments of 6 products across 27 mainframes. Aggregated metrics onto an **nginx/uWSGI** dashboard accessed 100+ times daily.
- Mentored three interns, two of whom were awarded extensions.
- Implemented a **Python** API for access and analysis of mainframe logs. Parsed terabytes of text to diagnose hardware failures on a \$70 million customer installation.

Special Olympics Minnesota: Volunteer Powerlifting Coach *2018–Present*

- Adapted coaching strategies to each athlete's physical abilities and communication skills.
- Coordinated warm-ups, meals, and parent concerns during full-day Area and State meets.

University of Minnesota: PhD Candidate *2009–2016*

- Benchmarked and optimized a wave simulation in parallel **Fortran**. Analyzed hundreds of gigabytes of data with **Python** to isolate novel patterns.
- Led laboratory exercises and tutored at-risk students individually. Coordinated between professors, graduate teaching assistants, and undergraduate tutors as Head TA.

Education

University of Minnesota: PhD *2009–2016*

- Space physics, Burlaga/Arctowski Medal Fellow

St Olaf College: BA *2005–2009*

- Math (Distinction), Physics (Distinction), Magna Cum Laude