

CALEB FREY

Philadelphia, PA, USA, 19146 | 908-878-3311 | calefrey@gmail.com | <https://www.linkedin.com/in/caleb-frey/>

SUMMARY

Results-oriented IT professional with expertise in automation, Power Platform development, and server administration. Proven ability to enhance business efficiency through innovative solutions, including automated workflows and data-driven reporting. Skilled in scripting (Python, PowerShell, Bash), data pipeline development, and network management. Adept at translating technical solutions to meet business needs and driving organizational success.

SKILLS

- **I.T./DevOps:** Linux, Docker, Git, Slurm, Bash, Windows Server
- **Microsoft Power Platform:** Power Apps, Power Automate, Power BI, SharePoint, Microsoft 365+
- **Programming:** Python, PowerShell, Pandas, Plotly, MATLAB

EXPERIENCE

Evonik Corporation

Digital Transformation Engineer

Allentown, PA

2022 - 2024

- Developed automation solutions with the Microsoft Power Platform and Microsoft 365 to reduce tedious and error-prone tasks, saving the company over 10,000 hours annually and delivering key insights into our operational performance.
- Upgraded legacy applications with new features, improved processes, and modern development processes paired with improved documentation to improve future support and maintainability.
- Generated Power BI reports to monitor key performance indicators for research projects, working alongside management to characterize important data and identify inconsistencies.
- Led the effort to migrate laboratory systems to a self-managed network, including a dedicated IP space, and support services.
- Procured and deployed laboratory computers and servers to ensure a consistent, reliable, and productive experience for users.
- Facilitated discussions between IT and laboratory teams to reconcile security needs with efficiency goals, developing mutually agreeable solutions within existing IT policy constraints.
- Consistently received positive feedback from stakeholders for rapid implementation and quick response times.

MicroMechanics of Deformation Research Group

Graduate Researcher

New Brunswick, NJ

2020 - 2022

- Designed and submitted large-scale simulations, using the Slurm job scheduler on the computing cluster to manage resources.
- Developed programs and data pipelines for efficiently creating and managing large batches of simulations runs.
- Optimized simulation analysis by processing data directly on the compute server, eliminating the need to transfer data over a slow network link before analysis.
- Mentored numerous colleagues on utilizing the computing cluster and navigating the Linux environment, reducing the initial learning curve and empowering them to conduct their research effectively.

Alpha Veterinary Care

Technology Consultant

Alpha, NJ

2018 - 2020

- Executed a seamless migration from a legacy phone system to a modern VoIP server, bringing a small business into the modern era.
- Engineered the PBX server to mimic the previous system experience, streamlining the transition to the new platform
- Collaborated with project stakeholders to discuss new capabilities and options such as automatic call routing and disaster recovery.
- Implemented redundant communication pathways to guarantee business continuity during power or internet connectivity outages.
- Upgraded business server to improve performance, resolving team member productivity issues caused by slow system response.
- Deployed a file server to ensure data redundancy and implemented offsite backups, optimizing for business continuity.
- Delivered cost-effective IT solutions tailored to the operational demands and financial constraints of a small business.

EDUCATION

Rutgers University, New Brunswick, NJ

2021 - 2022

MS, Materials Science and Engineering

- Toughening brittle materials through heterogeneous interfacial modification

Rutgers University, New Brunswick, NJ

2017 - 2021

BS, Materials Science and Engineering

- Engineering Honors Academy
- summa cum laude