

# Jack Fordyce

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<https://github.com/jackmford>

## EDUCATION

Bachelor of Science, Buena Vista University, Storm Lake, IA

Graduation Date: May 2020

**Major:** Computer Science

**GPA:** 3.75 Magna Cum Laude

## TECHNICAL SKILLS

**Programming Languages:** Python, Golang, Typescript, SQL, Ansible, Bash

**Tools & Platforms:** AWS CDK, AWS Cloudwatch, ELK Stack, Github Actions, Docker, Digital Ocean, Dynatrace, Prometheus, Grafana, Alertmanager, Nobl9, Flask, Caddy, Nginx

**Other Skills:** Monitoring-as-Code, SLOs, Observability, Automation

## WORK EXPERIENCE

**Software Engineer (SRE), Principal Financial Group, Des Moines, Iowa**

**July 2022-Present**

- Driving service level objective (SLO) adoption and site reliability engineering best practices.
- Building out monitoring-as-code solutions in AWS Cloudwatch, Dynatrace, and Nobl9.
- Establishing the reliability, observability, and monitoring enterprise standards at Principal.
- Assisting in maturing the company from zero to currently over 500 SLOs across the organization.

**Software Engineer, Principal Financial Group, Des Moines, Iowa**

**May 2020-July 2022**

- Automated API gateway deployment processes using Ansible and Python, vastly increasing service reliability.
- Overhauled monitoring capabilities for API gateways with Prometheus and Grafana.
- Drove greenfield SLO creation for the Apigee API gateway, achieving 99.95% reliability.

**Computer Science Academic Assistant, BVU, Storm Lake, Iowa**

**August 2019-March 2020**

- Built a Flask application to assist young students in learning programming concepts.
- Expanded expertise in full-stack web development while collaborating with peers and faculty.

**Software Engineer Intern, Principal Financial Group, Des Moines, Iowa**

**May 2019-May 2020**

- Contributed to API Management and Application Platform Services teams.
- Utilized Python and Ansible to manage servers and internal applications.
- Awarded first place in the 2019 Principal Summer Intern Code Jam Event.

## PROJECTS

### **Personal Website**

- Built using Golang, Tailwind CSS, and Caddy, hosted on DigitalOcean Linux nodes.
- Automated deployment with Ansible, GitHub Actions, and GoRelease.

### **Fordyce Photos**

- Flask application showcasing film photography, leveraging Amazon S3 for storage and Boto3 for retrieval.

### **Computer-Reservation**

- Developed a Flask/React application for managing on-campus computer lab reservations.
- Features a real-time UI displaying computer availability.

### **Canvas Assistant**

- Integrated Google Assistant with the Canvas API to provide verbal coursework updates.
- Deployed using Firebase and Realtime Database, written in Node.js with Dialogflow for natural language processing.