

Tyler Stapler

tstapler@iastate.edu
(909)-204-8042
<https://github.com/tstapler>
<https://www.linkedin.com/in/tstapler>

Education

Iowa State University

B.S. in Computer Engineering

August 2012 – Dec 2017

Classes: Algorithms, Operating Systems, Microelectronic Circuits, Linux Essentials, Embedded Systems, Discrete Mathematics, User Interfaces, Computer Networks, Computer Architecture and Assembly Programming

Skills & Interests

Full Stack Web Development
Cyber Security

Distributed Systems
Dev-Ops/Infrastructure

Work Experience

Workiva

Software Engineering Intern

May 2016 – Present

Created service for demoing and monitoring logging in logging solutions (Python/Dart)
Built system for running scripts on production data in a secure and auditable way (Python/App Engine)
Diagnosed problems across distributed micro services running Go and Python

Emerson Process Management

Software Engineering Intern

Jan 2015 – Aug 2015

Co-Invented patent pending technology
Sole maintainer of firmware for system with 20,000+ Units deployed
Debugged systems consisting of 100k+ of lines of code spread over multiple products. (Embedded C/C++)
Designed and implemented automated test suite which tripled testing throughput (Python)

Iowa State University

Research Assistant

May 2012 – Jan 2014

Produced an interface for experimental facial tracking algorithm (Matlab)
Generated image processing sample data
Modernized and maintained lab website (PHP)

Projects

Blackboard Binder (Hack ISU Spring 2015) – Utility used to automatically download and archive course materials from Blackboard (course management site used by ISU)

Techs: Python, Selenium, Flask (Web Framework)

DJ-Alfred – CRM Platform catering to Mobile DJ's. Helps users manage their events, clients, and playlists

Techs: Python, Typescript, Angular 2, Django (Web Framework), Django Rest Framework

DJCyKo (Hack ISU Fall 2015) - Instantaneous, collaborative DJing web app, allows users to share music videos and automatically play crowd sourced playlists

Techs: Python, Flask (Web Framework), Angular JavaScript, PostgreSQL, Socket.io (Web sockets), YouTube API

Stapler-Installer – Series of Ansible roles and Shell scripts for automatically installing and configuring my ideal development environment

Techs: Ansible, POSIX Shell Scripts, Python

Sky Dev – A Cloud IDE made for collaborative development. Includes code completion, chat, and project management

Techs: Dart, React, Docker, Ansible

Extra Circulars

ISUCF'V'MB (Marching Band) - 4 years, 1 year Drum Major

GROOVE (Drumline Club) – Ongoing participation, 4 years, 1 year Vice President, 1 year President

Hack ISU (Hackathon) – Ongoing participation every semester since creation, won Best Developer Tool

ISU CDC (Cyber Defense Competitions) – Ongoing participation, won 3rd place, and 2nd in National CDC

National Cyber Analyst Challenge – Traveling to Washington D.C. to compete with top teams from around the country, Late October 2016