Christopher D. Hagmann

Python Developer

Work Experience

TDS Telecom 2018

Python Developer

- Improved coding style and maintainability for the shared python libraries used across various teams and implemented a new API endpoint.

Epic Systems 2016 – 2018

Business Intelligence Developer

- Created T-SQL extracts and stored procedures for a dimensional database and maintained server-side code written in Caché (MUMPS) to assist health care institutions with managing population health.
- Completed contract work for various health care institutions to assist their existing teams with Epic-specific reports.

Purdue University 2012 – 2015

Graduate Research Assistant

- Modeled optimal system designs in Python using stochastic disjunctive programming methods for warehouses in supply chain networks using third-party APIs.
- Implemented a predictive model in Python for predicting the NCAA Tournament on a Debian Linux distribution.

Air Force Summer Faculty Fellowship Program Summer 2015

Graduate Research Assistant

- Developed efficient Python code to find the optimal parameters of a simulation for the MindModeling@Home project using statistical methods and genetic algorithms.

Volunteer Experience

The Church of Jesus Christ of Latter-Day Saints 2007 – 2009

Proselyting Missionary

- Proselyted door-to-door explaining religious beliefs to people in Spanish-speaking communities.

Brigham Young University 2006 – 2012

Peer Tutor

- Tutored fellow students in one-on-one settings to facilitate their learning and understanding of calculus, linear algebra, and general and organic chemistry.

Education

2012 – 2015 **Purdue University**
MS – Chemical Engineering
West Lafayette, IN, USA

2005 – 2012 **Brigham Young University**
BS – Chemical Engineering
Provo, UT, USA

2005 – 2007 **Brigham Young University**
Minor – Mathematics
Provo, UT, USA

Software skills

Advanced	Python
Intermediate	Linux, LaTeX, T-SQL, MUMPS, Oracle
Novice	HTML, CSS
Basic	JavaScript

Projects

2015 **Bracketology**
A predictive model in Python for creating a winning bracket for the NCAA Men's Tournament using k-Nearest Neighbor

2015 **Mercury**
A SMTP server interface to facilitate ease of sending emails and text messages from Python scripts using Python's context manager

2015 **PySP**
Disjunctive programming solutions for stochastic integer bilinearly-constrained programs in Python using Pyomo

Certifications & Trainings

2006 **CRLA Tutor Certification**
Level 1 Certified

Communication skills

Native	English
Fluent	Spanish (oral & written)
Intermediate	American Sign Language