

LIAM A. CRAWFORD

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EDUCATION

The University of Iowa, Iowa City, IA

Anticipated: May 2019

B.S. Computer Science, B.A. Philosophy

GPA: 3.91

Academic Honors: Presidential Scholar, University Honors, Dean's List (4x)

Course Highlights: Algorithms, Computer Security, Computer Organization, Operating Systems

SKILLS

Languages: Python, Ruby, Java, C++, C, JavaScript, HTML, CSS

Frameworks and Tools: Ruby on Rails, Jekyll, Maven, Git version control, RVM, Chef, RSpec, JUnit, Swing, AWS deployment, REST APIs, Web scraping

Methodologies: Agile, Continuous Integration, Continuous Deployment, TDD, OO Design, MVC, automated configuration management

RELEVANT EXPERIENCE

Undergraduate Researcher, *The University of Iowa*, Iowa City, IA

Mar 2016 – Present

StoryCarnival (Human Computer Interaction)

- Developing a set of applications for early childhood educators based on Tools of the Mind curriculum
- Iteratively implementing team-determined features written in Java, JavaScript, and HTML
- Worked closely with research subjects and other stakeholders to help determine the direction of the project and gauge user requirements

Software Engineering Intern, *Cerner Corporation*, Kansas City, MO

May 2017 – July 2017

Operations Engineering, Emerging Technology Services

- Refactored and enhanced a previously untested Chef cookbook that communicates with Cerner's internal asset management client's API, while concurrently increasing test coverage to 80%
- Will increase overall CI data compliance across 18,600 nodes from 55% to ~85% once deployed
- Upgraded an existing Ruby on Rails project by adding detailed visual success/failure indicators
- Implemented a 'translations' model which automatically converts template placeholders into user defined values

PROJECTS

Six Degrees of NFL Players (*Midwest Big Data Hackathon*)

Oct 2016

- Using Python web scraping and graphing libraries, collected and analyzed over 2 million data points to determine shortest path relationships between any two NFL players in history

BetterTimeCenter (*Cerner Intern HackFest*)

June 2017

- With a team, built a suite of applications – including a chrome extension, iOS app, and C# desktop application - to improve the payroll time tracking experience of Cerner's hourly employees (i.e. interns)

LEADERSHIP IN ACTIVITIES

Executive Director, Presidential Scholars Program

Mar 2016 - Present

Webmaster, Association for Computing Machinery

Apr 2017 – Present

Eagle Scout, Boy Scouts of America

Achieved: Sep 2014