

Claire Fuchs

<http://github.com/cfuchs981> · <http://cfuchs981.github.io> · www.linkedin.com/in/cfuchs981

(650) 733-5838 · cfuchs981@gmail.com

8513 Valdes Dr · St. Louis, MO 63123

EDUCATION

Truman State University, Graduating May 2020

Bachelors of Science in Computer Science

President's List 2016-2018

Kirksville, MO

Institutional GPA 4.0/4.0

Relevant Coursework :

Foundations of CS I & II (Ada/Java)

Internet Programming (HTML/CSS, JS, PHP/SQL)

Systems Programming (C/C++)

Data Structures and Algorithms (C++)

Computer Architecture

Object Oriented Program and Design (Java)

Programming Languages: Competent: Java, C++, HTML/CSS, JavaScript, PHP/SQL; Familiar: Python, React JS, Node.js, C, Perl

WORK EXPERIENCE

Google - Mountain View, CA

May 2018 - August 2018

Engineering Practicum Intern

- Created a full stack application and a companion script that autogenerated a web dashboard utilizing the service. These dashboards served as wrappers for Sherlog (a cross-platform log aggregation service) in which users could easily filter and create custom views to enable easier log tracing and debugging.
- Implemented an improved RPC service with 100% test coverage that constructed trees of log traces with settings to prune the tree to create subgraphs, render selected nodes as singletons, and dynamically return specified information about a given node.
- Wrote multiple design docs through the development process and made extendable and simplified versions of existing Sherlog UI components for clients to utilize in their own dashboards.
- Hosted several live demos for teams across Google to recruit them as prospective clients and continue to build the product based on their feature requests.

Truman State University - Special Collections

August 2017 - present

Digital Collections Assistant

- Debugged the current database Greenstone (C++/Perl); researched and prototyped several other database options for the department to switch to (Collective Access - PHP/MySQL, Internet Archive APIS - Python, Omeka)
- Redesigned webpages for the 150th anniversary of the school, cleaned out unused Microsoft Sharepoint Server, and worked with the tech department to make the university archive web system ADA compliant.

ACTIVITIES

Women in Computer Science - Webmaster

Fall 2016 - present

- Made websites, organized fundraisers and tutoring, and held computer science workshops at local elementary/middle schools.

Association for Computing Machinery - Member

Fall 2016 - present

- Organized tech presentations on campus and interview/resume workshops; attended hackathons throughout the Midwest.

Pershing Society- Secretary

Fall 2016 - present

- Organization for recipients of the Pershing Scholarship, a highly competitive full ride scholarship given to 12 students per year.

PERSONAL PROJECTS

- **CSDistress**: A game library built in Java for a computer science study group. Allows each member to play as themselves in professor-themed arcade games. Made for arguably academic purposes.
- **MarkovBot**: A Discord bot written in Node.js that dynamically builds a Markov table of probabilities based on the chat history of a channel, and will give responses generated from a given user's speech patterns.

All projects and source code can be found on <https://github.com/cfuchs981>.

#techisdying To preface, I don't actually think tech is dying. I grew up in poverty in Missouri, and ambition was awfully frowned upon. It seemed like so many people were unhappy with the way life was going that it became commonplace to harass anyone who tried to make something more for themselves. No one really wanted to break the status quo, since, in my parent's words, "Misery loves company." Because of that, when I started college in computer science and moved to a rural town, the heckling got a bit worse. People thought I was in over my head going into tech in general, and the thought of actually being hired in said profession was a borderline sin. People were so against the idea that they started refuting the tech industry in general. My parents went as far to claim that "the tech industry was dying" to convince me that I would never find success in the field. I then got an internship at Google. My classmates said that I had only gotten the offer due to being a woman, and I was disowned by my family for being "selfish." It all sounds pretty bizarre in hindsight, and to be honest these problems won't resolve anytime soon. Regardless, I do feel like good only comes from hard work, and that every time I've been knocked down, I've come back better. None of this has come easy, but I finally feel like I'm seeing a glimpse of what life could actually be like. Tech isn't dying, but "misery loves company" is a fantastically true phrase. But no one ever said you had to stay in the same company.

I think Twitter is one of the harder platforms to join. It's incredibly fast paced and becomes overwhelming witnessing so many massive followings whizzing around you. Whereas other social media platforms such as Facebook & Instagram feel more like dipping a toe into warm water, Twitter always seemed to me like being thrown into an ice bath. And maybe that's an appeal to some, but it scares off others. In general, I think Twitter would benefit from some advanced filtering options to create a diverse variety of tweet streams available to users. Or just expanding the UI to be more customizable in general - It's easy to be overwhelmed by sheer volume of information, and some noise blockers might do some good. From my experience, Twitter seems to lack as far as advanced search and filtering goes, or maybe I'm mistaken. Giving more control to the user would entice more to the platform. Secondly, Twitter should have a stronger presence in areas that are not Twitter's own domain. It's understandable if it cannot be deeply integrated into other social media platforms (e.g. the way Facebook and Instagram interact), but even the APIs Twitter provides to include its services on websites can be clunky and poor to use. It leads to shoddy implementation and a bad representation of the service - worse so, this drives people away from the site if this is the only experience they have with it. I've very rarely seen appealing snippets from Twitter not on the site itself. I think some more care to Twitter's external front could raise overall usage.