

Elias Julian Marko Garcia

elias.jm.garcia@pressmail.ch
github.com/ejmg
linkedin.com/in/eliasjmgarcia

About Me

First generation American born and raised in KC, MO that fell into programming. My interests include social science, complex systems, decentralization, functional programming, and usability. Ultimately, I want to work on things that make a tangible difference for the average person and/or that contribute to society's aggregate technological knowledge. My spare time is typically taken up by reading Baudrillard, bouldering, messing with my Arch install, and tilting my head at windmills. My favorite hip-hip group is the wu tang clan, and they ***will be respected***.

Education	University of Missouri-Kansas City , Kansas City, MO <i>Bachelor of Science</i> , Computer Science, May 2020	GPA: 3.362
Skill Set	<p>General: Eight plus years experience as a writer and presenter for both lay and professional, small and large audiences. Ask me about it!</p> <p>Programming: Four plus years of experience in programming, including:</p> <ul style="list-style-type: none"> • languages: Python, Java, Lisp, Rust, Haskell, SQL, L^AT_EX, C++, and JS/HTML/CSS. • operating systems: Linux (Debian derivatives and Arch), macOS, and Windows • applications: Flask, Nom, Nginx, Chef, Kitchen, Vagrant, Emacs, Git, IntelliJ, and Postman <p>Social science: Five plus years experience with economic policy, especially political economy and financial economics. Extensive research experience.</p>	
Projects	<p>HL7 2.x Parser: Implemented from specification an HL7 2.x message parser entirely from scratch using Rust and the parser-combinator Nom library. This parser targets CPython for use as an extension by the flask-FHIR server implemented as a part of a new Cerner Interop solution for payer claim verification.</p> <p>Open Tabularius: Hack-a-Roo (spring '18) project turned solution for the Hogan charter school system for automating the tracking and analyzing of student data. Finalist submission.</p> <p>Don't Mix It!: Cerner intern Ship-It (summer '18) project to reduce adverse drug reactions (ADR), particularly for the old and young, via a simple android app. Group project. Second place submission.</p> <p>#Hashtag-Health: Cerner intern Ship-It (summer '17) project that visualized real time and historical tweets pertaining to health coded phrases, keywords, and hashtags. Group project. Third place submission.</p> <p>Tomaty: A python implementation of the Pomodoro Technique using GTK. I disliked the available alternatives for linux so I made my own cross platform applet and use it daily. With proper dependencies installed, it is available on PyPI with <code>pip install tomaty</code>.</p> <p>Loxy: A python implementation of Bob Nystrom's Lox language and interpreter. I want to learn more about PL's and I'm working through implementation details to better understand them. W.I.P.</p> <p>Twitter Bots: Implemented multiple bots using Python via the tweepy api wrapper and hosted on my personal server via chron jobs. Notable bots I've created are @trumanweather, @Baudrillard_Bot, and @TOUGHLOVEBOT. Between these three, I used the Dark Sky Weather API, Stanford's NLTK for text processing, Python's Pillow imaging library, PyPDF for PDF parsing, and lots of e-lisp regex'ing.</p> <p>ageof.info: Personal blog started sophomore year in high school on WordPress, now migrated to a personal server and domain via a Raspberry Pi 2, Ubuntu 18.04, Nginx, Namecheap, and Let's Encrypt. This is a glorified archive of my thoughts through the years on tech, econ, and philosophy.</p>	
Experience	Software Engineer summers of '16, '17, '18, '19 I worked on Millennium, PopHealth, and Cerner Interop. For Millennium, I improved	Cerner Corp. Kansas City, MO

automatic localization. For PopHealth, I improved the automation of pipeline deployment and expanded infrastructure testing capabilities. While on Interop, I worked on a new solution for payer verification of healthcare claims by implementing an HL7 2.x parser with Rust as a CPython extension.

Vice President

fall '18

Truman State ACM

Kirksville, MO

Helped re-launch Truman's ACM chapter and regain our status with the national ACM program. I focused on engaging and increasing freshman and sophomore turnout by holding workshops on git, python, and holding sign-ups for nearby hackathons.

Writing Consultant

fall '16 — fall '18

Truman State Writing Center

Kirksville, MO

Helped edit and review papers of undergraduate and graduate students for classes and publication. Additionally, I was a writing fellow for Professor Gillette's ECON210 class, where I helped students learn how to write professional research papers in the field of economics.

Undergraduate Researcher

summer '16

Truman State McNair Program

Kirksville, MO

Participated in the McNair post-baccalaureate summer research interim, focusing on financial markets and financial crisis of '07. My research resulted in a paper and presentation on the complexity of financial regulation and its interaction with Knightian uncertainty.

Research Fellow

summer '15

Independent Institute

Oakland, CA

Assisted the institute in its re-branding, including website design, and restructuring their academic archives. Furthermore, I researched for full time fellows and assisted in the editing process for peer reviewed materials.

Awards and Honors

PLMW Scholar

ACM SIGPLAN

2018

Strange Loop Scholarship

Project Alloy

2017, 2018

DST Systems Computer Science Scholarship

University of Kansas City-Missouri

2018 — 2019

McNair Scholar

Truman State University

2015 — 2017

President's Honorary Scholarship

Truman State University

2014 — 2017

MO Scholar

Missouri Scholars Academy

2014