

### **SOFTWARE ENGINEER**



Highly motivated and capable software developer, seeking a challenging and novel position to grow my experience and understanding in the field. Looking to discover new topics, discuss and solve new problems, and contribute meaningful and relevant tools to the world.

### **IBI** WORK EXPERIENCE

### **UAB Computer Forensics Research Laboratory**

https://www.uab.edu/cas/computerscience/research/research-labs/computer-forensicsOctober 2018 – Present

### **Software Developer**

#### Highlights

Developed and maintained tools for capturing content from social media including Twitter, Reddit, and many other OSINT data sources

Developed a database design methodology for storing mass social media, OSINT data from a variety of sources and in a variety of formats into different PostgreSQL databases

Contributed to the design and implementation of a new access control system for use within the Computer Forensics Research Lab

Contributed to the design of many supportive webapps for accessing and analyzing aforementioned captured data

Re-designed devops methodology, webapp deploy process used by CFRL to enable developers to better test their applications locally and in CI

Researched and deployed an Elasticsearch cluster for use with ZomboDB, allowing elasticsearch-supported full text search in the form of a PostgreSQL index

Maintained and administered a pair of high performance CentOS servers for serving end users, mass compute, mass storage of data, running workers for aforementioned data capturing tools

### **University of Alabama at Birmingham**

https://www.uab.edu/cas/computerscience/

January 2019 - May 2021

### **Teaching Assistant**

CS330 Computer Architecture and Assembly

#### **Highlights**

Developed and re-designed assignment structure

Created most documents used in lab materials

Developed consistent grading methodology

Ensured the success of hundreds of students in deeply understanding intel x86\_64 ASM

#### **UAB Computer Forensics Research Laboratory**

https://www.uab.edu/cas/computerscience/research/research-labs/computer-forensics

December 2018 - March 2019

### **Programmer Supervisor**

### **Harbor Freight**

https://www.harborfreight.com/

June 2017 - September 2018

### **Team Member, Cashier**

## **AWARDS**

## **University of Alabama at Birmingham**

TPresident's List

Qualified for President's List (achieved 4.0 GPA after taking 12+ credit hours) in 3 out of 8 semesters.

## **University of Alabama at Birmingham**

TDean's List

Qualified for Dean's's List (achieved >=3.6 GPA after taking 12+ credit hours) in 4 out of 8 semesters.

## **University of Alabama at Birmingham**

Tresidential Recognition Scholarship

Highly competitive academic scholarship providing full tuition payment for UAB students qualifying via their academic accomplishments before college

# **PROJECTS**

n2yo-scraper:

Cool Space Things: A novel visualization of satellite metadata from n2yo

wttr.in: A weather service for your terminal. `curl https://wttr.in/`

## **© CONTACT**

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Hoover, Alabama US

(205) 410-3412

gregdan3@protonmail.com

https://gregdan3.neocities.org/

nicips.//greguans.neocicles.org/

gregdan3

Github

Gitlab

gregdan3

Keybase

gregdan3

Linkedin

gregdan3

StackOverflow

gregdan3

## **m** EDUCATION

2020 2021

## **University of Alabama at Birmingham**

https://www.uab.edu/

Master

Computer Science

Grade: 4.0

Courses

CS632 Parallel Computing

CS636 Computer Security

CS643 Cloud Security

CS652 Advanced Algorithms and Applications

CS660 Artificial Intelligence

2016 2020

## **University of Alabama at Birmingham**

https://www.uab.edu/

Bachelor

Computer Science

Grade: 3.76

Courses

CS334 Networking

CS401 Programming Languages

CS420 Software Engineering

## **淫SKILLS**

#### Architecture

Apache Docker Elasticsearch Flask Graylog Gunicorn Kibana Logstash MongoDB

Nginx Phusion Passenger PostgreSQL RabbitMQ Redis Traefik

**Assembly** 

Intel x86\_64 GNU

**Backend Development** 

Web Scraping Design Python SQL

C/C++

Education Make

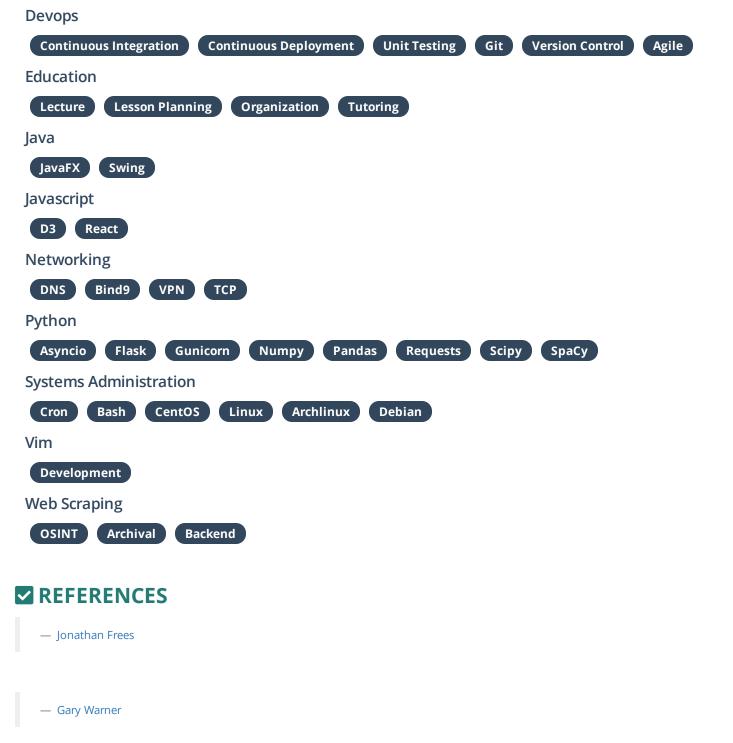
**Cloud Computing** 

AWS DigitalOcean Ansible

**Cyber Security** 

**Database Administration** 

SQL MySQL PostgreSQL ZomboDB SQLite MongoDB



Mahmut Unan