GREGORY DANIELSON III
SOFTWARE ENGINEER

👤 ABOUT

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.

💼 WORK EXPERIENCE

UAB Computer Forensics Research Laboratory
🌐 https://www.uab.edu/cas/computerscience/research/research-labs/computer-forensics
October 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

🏆 President'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

🏆 Dean's List

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

August 2016   ### University of Alabama at Birmingham

🏆 Presidential 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

📍 **Hoover, Alabama US**

📞 **(205) 410-3412**

✉ **gregdan3@protonmail.com**

🌐 **https://gregdan3.neocities.org/**

Github
gregdan3

Gitlab
gregdan3

Keybase
gregdan3

Linkedin
gregdan3

StackOverflow
gregdan3

🏛 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

⁙ 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**

Devops

Continuous Integration   Continuous Deployment   Unit Testing   Git   Version Control   Agile

Education

Lecture   Lesson Planning   Organization   Tutoring

Java

JavaFX   Swing

Javascript

D3   React

Networking

DNS   Bind9   VPN   TCP

Python

Asyncio   Flask   Gunicorn   Numpy   Pandas   Requests   Scipy   SpaCy

Systems Administration

Cron   Bash   CentOS   Linux   Archlinux   Debian

Vim

Development

Web Scraping

OSINT   Archival   Backend

☑ REFERENCES

— Jonathan Frees

— Gary Warner

— Mahmut Unan