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.

IBI WORK EXPERIENCE

UAB Computer Forensics Research Laboratory

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

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

⊚ CONTACT

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2020

2021

Hoover, Alabama US

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gregdan3@protonmail.com

https://gregdan3.neocities.org/

Github gregdan3

Gitlab

gregdan3 **Linkedin**

gregdan3

StackOverflow

gregdan3

並 EDUCATION

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 University of Alabama at 2020 Birmingham

ttps://www.uab.edu/

Bachelor

Computer Science

Grade: 3.76

Courses

- ◆ CS334 Networking
- ◀ CS420 Software Engineering

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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

T 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/`

淫 SKILLS

Architecture

Apache Docker Elasticsearch

Flask Graylog Gunicorn Kibana

Logstash MongoDB Nginx

Phusion Passenger PostgreSQL

RabbitMO 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

file:///home/gregdan3/git/personal/resume/out/gregdan...

— Jonathan Frees	
— Gary Warner	
— Mahmut Unan	

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