



# JOHN S. ALYN JR.

## Software Engineer

Location: Riverdale, Georgia

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### Certifications:

CompTIA  
Security+ (Ongoing)

### Skills

#### Programming Languages:

Python (Proficient)  
Java (Proficient)  
JavaScript (Proficient)  
C++ (Intermediate)  
SQL (Intermediate)  
Rust (Familiar)  
Shell (Familiar)  
PHP (Familiar)

#### Framework/Libraries:

Django (Proficient)  
ReactJS(Proficient)  
Spring (Intermediate)  
Aeron (Familiar)  
TensorFlow(Familiar)  
Rails(Familiar)

#### Databases:

PostgreSQL(Proficient)  
MySQL(Intermediate)  
MongoD(Intermediate)

#### Tools:

Visual Code Studio(Proficient)  
Github (Intermediate)  
Git(Intermediate)

#### Cloud:

AWS (Intermediate)  
Google Cloud (Intermediate)  
Azure (Familiar)

### Languages:

Spanish

### Professional Summary

Highly motivated Software Engineer graduate from Columbia University with a strong foundation in data structures, algorithms, and object-oriented programming. Proficient in Python, Java, and JavaScript, with experience developing web applications using React, Node.js, and Flask. Passionate about building scalable and efficient solutions to complex problems.

### Education

#### COLUMBIA UNIVERSITY

MAY 2023

#### Bachelors, Computer Science

##### Relevant Coursework:

- Data Structures
- Discrete Mathematics
- Advanced Programming
- Computer Science Theory
- Analysis of Algorithms I,
- Introduction to Databases
- Fundamentals of Computer
- Human-Centered Interface & Design

### Experience

#### Clayton County

Jonesboro, GA

May 2025 - Present

#### Engineering Technician

- Performed diagnostic troubleshooting and repairs on solid-state, electronic, electrical, digital, and microprocessor-based components within traffic signal systems, demonstrating proficiency in system analysis and problem resolution.
- Assisted Transportation Control Center (TCC) personnel in troubleshooting advanced traffic signal operation parameters and network communication devices, collaborating to resolve complex system issues.
- Maintained and operated computerized traffic control systems, including variable message signs and surveillance cameras, gaining experience with networked systems and data management.
- Performed intermediate-level programming of traffic signal controllers, demonstrating ability to understand and modify software-controlled systems.
- Configured and maintained Ethernet network communication equipment, gaining experience in network protocols and configurations.
- Interpreted project plans and technical documentation to ensure accurate installation and operation of traffic signal systems.
- Participated in the Department's Emergency Response/Call-Back Program, providing critical support and troubleshooting during system failures and outages.

#### Charlotte's Web-Design LLC

Miami, FL (Remote)

Dec 2023 - Present

#### Web & Software Developer Contractor

- Developed and maintained SEO-optimized websites to improve search engine rankings and user engagement, resulting in a 20% increase in organic traffic.
- Leveraged HTML, CSS, JavaScript, and WordPress CMS to create responsive and visually appealing web designs.
- Managed digital marketing campaigns to increase online presence and drive traffic, increasing social media engagement by 15%.
- Enhanced brand visibility and generated leads through strategic online marketing initiatives, leading to a 10% increase in qualified leads.