

# David Cannan

☎ Phone	<a href="tel:4043584338">4043584338</a>
@ Email	<a href="mailto:davidacannan@gmail.com">davidacannan@gmail.com</a>
🔗 GitHub	<a href="https://github.com/Cdaprod/Cdaprod">https://github.com/Cdaprod/Cdaprod</a>
🔗 LinkedIn	<a href="https://www.linkedin.com/in/cdasmkt/">https://www.linkedin.com/in/cdasmkt/</a>
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## Solutions Architect — DevOps + MLOps

Douglasville, Georgia, United States

Email: [davidacannan@gmail.com](mailto:davidacannan@gmail.com) | Phone: (404) 358-4338

[LinkedIn](#) | [GitHub](#)

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## Skills Summary

- As an autodidactic **self-taught programmer** and **DevOps engineer**, my journey has been one of continuous learning and adaptation. Specializing in **Python** and **JavaScript**, I've used these languages to automate processes and develop open-source projects. Through a pioneering approach, I've developed my cloud infrastructure locally, achieving nearly a 100% cost *reduction* in infrastructure expenses.

## Skills Summary

- As a **self-taught programmer** and **DevOps engineer**, my path has been one of continuous learning and adaptation. I've specialized in **Python** and **JavaScript** to automate processes and develop open-source projects. Through a pioneering approach, I've developed my cloud infrastructure locally, virtually eliminating infrastructure costs.
- My **containerization** expertise is showcased through my use of **Docker** and **Kubernetes** to build efficient, self-hosted development environments. This is further

enhanced by opting for **MinIO for object storage** over S3 and **OpenFaaS** over Lambda. These choices exemplify my focus on cost-effective, self-hosted solutions. In **cybersecurity** and **bug bounty hunting**, I've deployed secure pipelines using **Ansible** and **custom Python scripts**.

- The dynamic field of **AI & ML** is where my unique value proposition lies. Recognizing the security concerns many companies have about integrating AI, I've developed my own secure AI inference endpoints. I also make use of local and open-source models, ensuring that data remains secure while still reaping the benefits of AI. This involves a full training and testing cycle using libraries like **Pandas**, creating actionable insights. This multi-disciplinary skill set is a testament to my resilience, innovation, and commitment to turning challenges into opportunities for growth.
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## Experience & Projects

### Work Experience

#### Open Source Contributor, GitHub (2022-2023)

- Actively contribute to a variety of open-source projects, focusing on automation, DevOps, and AI/ML.
- Publishing contributions publicly to share my passion of creativity with other likeminded developers and hobbyists.

#### CDA Photography LLC, Douglasville, GA (2018-2022)

- Owner and Product Developer
- Developed and managed cloud resources, content delivery, and client data systems.

#### T&T Caseworks, Douglasville, GA (2021-2022)

- Head of Lamination Department
- Implemented efficient processes, programmed CNC machines in C++ and Python.

#### Grace Christian Academy, Powder Springs, GA (2015-2018)

- Primary Janitorial Custodian

- Managed property and established efficient workflows.
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## Projects

- **Retrieval Augmented Generation System:** My RAGS is a centralized knowledge ML pipeline which is used to generate content based on my data.
  - **Automated Stock Video Metadata System:** Reduced metadata processing time by 80%.
  - **AwsBrevityReconProject:** Automated security reconnaissance, reducing manual effort by 70%.
  - **BugBounty-Infrastructure:** IaC deployments for security recon pipelines using Terraform, Vagrant, Docker, Ansible, and Python.
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## Education

- **Chattahoochee Technical College**, *Marietta, GA*
    - Course of Study: Computer Science
    - Attended: 2009
    - Note: Education was interrupted due to a life-altering event but continued to self-educate in the tech field.
  - **High School Diploma**, *South Paulding High School, Paulding County, Georgia*
    - Graduated: 2007
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## Additional Information

- **Blog:** [Sanity.Cdaproduct.dev](https://sanity.cdaproduct.dev)
  - **About-Me:** [Github/Cdaprod](https://github.com/Cdaprod)
  - **Self-Taught:** No formal tech employment history, but a proven ability to learn and apply new skills.
  - **Unique Career Path:** Transitioned from photographer and woodworking to security & software engineering.
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## Public Acknowledgments

Over the past 45 weeks, I've invested approximately 12 hours per day to master the ability to engineer entire infrastructures from the ground up. My commitment to this endeavor has been recognized by industry leaders.

- **Founder of Splunk:** I was honored to be invited for a one-on-one breakfast discussion, where we explored potential collaborations and delved into the future landscape of data analytics.
- **CEO, Co-Founder & Team of MinIO:** I received personal recognition for my expertise in object storage solutions and was specifically asked to contribute a Gartner Peer Review on their behalf.