

# Zachary J. Rice

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## Experience

**Software Engineer** – Gannett, Urbana

May '18 – present

- Manage Gannett's CDN layer which is responsible for all 120+ properties Gannett owns, including USATO-DAY.com.
- Maintain Gannett's API Gateway via Apigee.
- Develop Go applications for internal customers (slackbots, management apis, automation tools, etc).
- Orchestrate migration of our apps to Helm/Kubernetes.
- Support the security team for internal audits using Gitleaks.
- Migrate our Jenkins CI from a scripted pipeline to a declarative pipeline.
- Engage with external vendors like CDN and API gateway providers.

**Software Engineer** – Agribile, Champaign

October '15 – May '18

- Developed Python code for our services hosted on AWS leveraging technologies like Kinesis, Firehose, Redshift, and Lambda.
- Developed internal tools for managing workflows and scheduling jobs.
- Participated in daily standups, sprint planning and intern management.

**Teaching Assistant** – University of Illinois, Urbana

August '14 – December '15

ECE 220, Computer Systems and Programming

- Taught lab sections twice a week and taught lectures when professor was absent.

**Systems Intern** – State Farm Research and Development Center, Champaign

May '14 – August '14

- Developed a computer vision project using OpenCV and Xbox Kinect to detect and track unsafe driving behaviors. This project was open sourced to a Kaggle competition, *State Farm Distracted Driver Detection*, for a \$65,000 prize – <https://www.kaggle.com/c/state-farm-distracted-driver-detection>.

**Accelerator Control Intern** – Fermilab, Batavia

May '13 – Aug '13

- Created a replacement for a legacy application that was used to manage thousands of hardware instruments throughout Fermilab's campus.

## Education

**University of Illinois, Electrical and Computer Engineering**, Urbana, IL

August '13 – December '15

Bachelor of Science in Computer Engineering

- Member of ACM-SIG Music and ACM-SIG Computer Human Interaction
- GPA: 3.11/4.0

**Parkland College**, Urbana, IL

December '12 – May '13

Associate of Science in Electrical Engineering Sciences and Computer Science

- GPA: 3.61/4.0
- Awards: Dean's List, Walter H. Miller Scholarship, Heartland Bank Scholarship, UIUC's Employee Scholarship

## Projects

**GitLeaks** – [github.com/zricethezav/gitleaks](https://github.com/zricethezav/gitleaks)

- Tool to search Git repos for leaked API keys and secrets using regex and entropy
- 4.4k stars on Github
- Active community, 40 releases, and 26 contributors

**Others** – [github.com/zricethezav](https://github.com/zricethezav)

- whatSpeed - Download and upload speed checker written in Go
- h1domains - OSINT Python script to gather all in scope domains for hackerone bounties
- zachstalks - Python script to download Youtube audio then upload to The Internet Archive

## Skills

**Languages:** Go, C, Python, VCL, Bash, C++, Haskell, Java, x86, CUDA, PostgreSQL, Groovy,  $\LaTeX$

**Technologies:** Jenkins, Fastly, Apigee, GCP, AWS, Kubernetes, Helm, Docker, Django, Flask, Redis, Postgres, Elastic-Search, Celery, Heroku, Vagrant, Wireshark, BurpSuite, Selenium, Vim