

Zachary J. Rice

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Experience

- Software Engineer** – Agrible, Champaign October '15 – present
- Backend developer for Morning Farm Report (MFR) – a web application that delivers field-level forecasts on yield predictions, nutrient availability, fieldwork conditions, hail events, weather and sustainability metrics.
 - Develop idiomatic Python code for our services hosted on AWS leveraging technologies like Kinesis, Firehose, Lambda and Redshift.
 - Develop internal tools for managing workflows and scheduling jobs.
 - Participate in daily standups, sprint planning and managing interns.
- 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.
 - Topics included: C programming, LC3 assembly, recursion, pointers and data structures.
- 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 eventually 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

- Gronit** – github.com/zricethezav/gronit
- Cron monitoring service written in Go.
 - Free, self-hosted alternative to services like Cronitor.
- Others** – github.com/zricethezav
- reddit_murmur - reddit streaming client that scores sentiment from subreddit comments
 - TwitterKeep - Download and store tweets by search term or user in Postgres.
 - TwitterScrape - Scrape tweets from html.

Skills

- Languages:** Python, C, Go, Bash, C++, Haskell, Java, x86, CUDA, PostgreSQL, L^AT_EX
- Technologies:** Django, Flask, AWS: {Kinesis, Redshift, Firehose, Lambda, EBS, ECS} Redis, Postgres, Elastic-Search, Celery, Heroku, Vagrant, Docker, Wireshark, BurpSuite, Selenium, Vim