

# Zachary Andrews

B.S. in Computer Science  
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## SUMMARY

Result focused Computer Science graduate with data engineering and research experience. Ability to work independently and as part of a team to define and analyze requirements, determine multiple solutions with pros/cons, and implement and innovate to finalize the best possible outcome. Passion for transportation, learning, and helping others. Areas of expertise include:

- **3+ years in school:** C/C++, React, CSS, HTML, PHP, JavaScript
- **1+ years:** Python, Git
- **1 year:** Cloud Computing, AWS
- **1 year:** Linux and SQL scripting

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## EDUCATION

### The University of Kansas, Lawrence, KS - *B.S. in Computer Science*

August 2019-Fall 2023

GPA: 3.25

Last Semester GPA: 3.82

Coursework in: Cybersecurity, Networks (TCP/IP, Wireshark, OSI Model), Programming (Object-oriented design, data structures, and best industry practices)

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## RELEVANT EXPERIENCE

### Capital One

August 2021-September 2022

#### Data Engineer

Plano, TX (remote)

- Utilized an in-house machine learning algorithm to automate validation of new datasets and display results with a REST API, driving business goals by automating tedious manual dataset validation
- Worked on meticulous documentation in YAML and unit testing in Python for the new API, testing output and clarifying to users how API should be used
- Created Tableau dashboards and Snowflake tables conveniently displaying metrics related to data governance
- Improved knowledge of metric sources to prepare for data migration, identifying true sources where available to help provide programmatic access to datasets that produced metrics
- Various Python, SQL, and ETL automation scripting projects
- Experience in Agile principles and Scrum framework with Jira

### Slusky Computational Biology Lab

January 2021-July 2021

#### Undergraduate Research Assistant

Lawrence, KS

- Built programs in Python involving generation of pseudorandom sequences, one-hot encoding, and plot generation
- Began to train a neural network to identify a specific kind of protein
- Developed a good foundation in Python

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## PROJECTS

- KU Hackathon project (ELI\_), frontend in React and CSS, backend MongoDB:  
<https://github.com/tuckspaint/HACKKU23.git>
- Hands-on experience working with team members programming a virtual game of chess via HTML, CSS and JavaScript; created some UI features and the algorithms for check and checkmate:  
<https://github.com/EuslidEuclid97/eecs448-project4-ChessGame.git>
- Personal website in progress ([zackandrewsdev.com](https://zackandrewsdev.com)) implementing CI/CD with GitHub Actions and hosted with Nginx proxy on EC2 server; built with TypeScript and React  
(<https://github.com/EuslidEuclid97/professionalWebsite>)

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## CERTIFICATIONS

- [AWS Certified Cloud Practitioner - Credly](#)

## LEADERSHIP AND HONORS

University Honors Program, Honor Roll 2019-2020, Engineering Honor Roll Fall 2023

Leadership at Sunrise Movement KU, Environs KU (environmentalist clubs)