

Jesse Akes

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Education

University of North Carolina at Chapel Hill

Expected May 2019

- Bachelor of Science in Computer Science
- Bachelor of Science in Mathematics
- GPA 3.52

Leadership Experience

- HackNC Organizational Committee Co-Lead 2017-Present
 - Coordinate efforts between student organizers and the UNC Computer Science Department to produce UNC's 700+ person annual hackathon.
- HackNC Fundraising Committee Lead 2016-2017
 - Recruited companies to sponsor and participate in UNC's annual hackathon
 - Created a budget by working with the Computer Science department and other committee members
 - Managed organization finances, dispensed funds as necessary
- Eagle Scout Award October 2013
 - Achieved the highest rank in the Boy Scouts of America
 - Project included the completion of an outdoor classroom at Randleman High School

Relevant Coursework

- Data Structures, Computer Organization and Design, Internet Services and Protocols, Operating Systems, Files and Databases, Algorithms
- Linear Algebra, Differential Equations, Probability, Combinatorics

Work Experience

Fidelity Investments (Durham, NC)

May 2017 – August 2017

Data Engineering Intern, Personal Investing Real Time Analytics Team

- Implemented a cluster-wide monitoring system using the Elastic Beat framework to collect and ship metrics and application logs to data pipeline consisting of Apache Kafka and the Elastic Stack.
- Deployed a real time alerting system based on Elastalert using the collected metrics and logs.
- Designed and implemented custom Service-Now integration into Elastalert for ticket based alerting.

Department of Computer Science, UNC - CH (Chapel Hill, NC)

January 2016 – January 2017

Undergraduate Learning Assistant, COMP 110 – Intro to Programming

- Member of 35-person team to maximize student success in a class for those with no prior programming experience
- Held regular "office hours" to assist students with concepts and programming assignments
- Contribute to the creation of programming assignments

Projects

RESPC Solar Energy Dashboard (Python/Flask/HTML/CSS)

August 2016

- Wrote a web crawler to scrape solar array production data from a public facing portal due to lack of direct access to data
- Implemented a web app with Flask to display and dynamically update the collected data for the UNC Renewable Energy Special Projects Committee in the Graham Student Union

Chaos Game/Sierpinski Triangle Fractal Generator (Python/Matplotlib)

December 2016

- Created an animation using python's matplotlib module that simulates the "chaos game"
- Generates 50,000+ points to create Sierpinski triangles, a type of iterated-function system fractal.

Skills

Languages

Python, Java, C, R, HTML/CSS, MySQL

Other Technologies

(Arch and Debian-based) Linux, Git, Docker, Ansible, Elastic Stack