

JESSE AKES

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EDUCATION

University of North Carolina at Chapel Hill

May 2019

- Bachelor of Science in Computer Science
- Minor in Mathematics
- GPA 3.48

Leadership Experience

- HackNC Organizational Committee Co-Lead 2017-2018
 - Coordinated 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

Relevant Coursework

- Data Structures, Computer Organization and Design, Internet Services and Protocols, Operating Systems, Files and Databases, Algorithms, Distributed Systems, Smart and Connected Systems, 2D Graphics, Digital Logic, Robotics, Parallel Computing, Computer Security, Compilers
- Linear Algebra, Differential Equations, Probability, Combinatorics

WORK EXPERIENCE

Amazon.com (Austin, TX)

May 2018 - Aug 2018

Software Development Engineer Intern, FLASH-Order To Cash Team

- Designed and implemented a new internal micro-service for bank account and bank file tracking for use by accountants and the OrderToCash Team
- Using AWS Lambdas, parsed bank account and bank file information from incoming transactions
- Designed and deployed a REST API for easy accessibility of the parsed data
- Wrote a ReactJS front-end to display account and file information/trends and to aid in quickly discovering missing remittances

Fidelity Investments (Durham, NC)

May 2017 - Aug 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)

Jan 2016 - Jan 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

PROJECTS

NextBook (Python/Alexa Skill)

July 2018

- Wrote an Alexa skill to recommend a book based on titles given by the user.
- Included dialogue/speech recognition of the title and use of the Amazon Product Advertising API for access to Amazon's catalog.

ChowPal (Python/Flask)

Jan 2018

- Created an app that allowed users to scan a takeout menu on their phones, and tap to select a dish they wanted to find more about (nutritional information, explanation of the dish, and an image in an overlay).
- Used Tesseract-OCR to determine the dish, including in languages not in English.

SKILLS

Languages

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

Other Technologies

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