JESSE AKES

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EDUCATION

University of North Carolina at Chapel Hill — Expected May 2019
- Bachelor of Science in Computer Science
- Minor in Mathematics
- GPA 3.46

Leadership Experience
- HackNC Organizational Committee Co-Lead — 2017-2018
  - Coordinated efforts between student organizers and the UNC Computer Science Department to produce UNCs 700+ person annual hackathon
- HackNC Fundraising Committee Lead — 2016-2017
  - Recruited companies to sponsor and participate in UNCs 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
- 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