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Rachel Katz

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Education

University of Virginia, School of Engineering and Applied Science - Charlottesville, VA Expected: May 2018
Bachelor of Science, Computer Science Engineering Major, Engineering Business Minor
Cumulative GPA 3.750, Major GPA 3.774

iXperience - Cape Town, South Africa, Coursework: iOS App Development Summer 2016

Technical Skills

- **Programming Languages:** C++, Java, Python, Swift, Bash, HTML, CSS, C, x86 Assembly, PHP
- **Frameworks, Technologies, & Tools:** Docker, Cucumber, Mockito, Powermock, Amazon S3, Git, Maven, Apache Kafka, Bootstrap, PhpMyAdmin, MySQL, PostgreSQL, Django
- **Other:** Leadership, Team Management, Tutoring, Database Management, API Development, iOS Development, Back-End Development

Projects

Greens to Grounds Website - Executive Positive as Head of Tech Team Spring 2016-Present

- Work in PHP, HTML, and CSS to add weekly updates and other features to the website necessary for sales
- Introduce new features, such as allowing purchases to be made using student meal plans and gift card purchases

Capital One Hackathon - Squad Goals Web Application June 2017

- Collaborated with a team of five to design & build a platform that used friendly workplace competition to encourage healthy living using Bootstrap, Django, and the iOS Health Data Kit

Lokahi Crowd Fintech Website - Advanced Software Development Techniques Spring 2017

- Collaborated with a team of four to build a website designed to ease the communication process between companies and investors using Django
- Messaging, report, file upload, and group systems were implemented using Symmetric & Asymmetric Encryption

Rapid Recipes - Database Systems Spring 2017

- Collaborated with a team of four to design and build a website which allowed users to find recipes based on ingredients, dietary restrictions, meal type, and difficulty level
- Used PHP, HTML, Bootstrap, and MySQL Server to connect to our own constructed relational database

Hoos In Treble (A Capella Group), Business Manager 2015-Spring 2017

- Developed a user-friendly website to formalize reimbursement requests: <https://hoosintreble.github.io/>

Relevant Work Experience

University of Virginia - CS 2150 Teaching Assistant, Charlottesville, VA Fall 2016 - Present

- Lead lab sections, advise students during office hours, and grade coursework where students implement abstract data types and program control in C++ and assembly language

Capital One, Associate Data Architecture Software Engineering Intern, New York, NY Summer 2017

- Created and executed a testing plan for team's change capture pipeline cache update solution, implemented using java, apache kafka and hazel cast cache
- The testing plan consisted of Unit Tests, Functional Tests, Integration Tests and Documentation
- Implemented the tests with Java, Mockito, cucumber, Bash, SQL Scripting, Amazon S3 to upload of test results (kicked off a lambda function in the internal production API), & docker to containerize the functional test suite
- Used Docker to containerize the components of the cache update solution

PriceCheck, iOS App Developer, Cape Town, South Africa Summer 2016

- Built a public voting platform for PriceCheck's Tech and Ecommerce Awards using Swift, Firebase, and LimeSurvey's API
- Became adept at git source control, sending and retrieving data via network calls, and parsing HTML

Leadership Experience & Activities

Women in Computer Science (WiCS), Peer Mentor Spring 2016 - Present

- Work with younger women in CS to help prepare them for classes, internships, and other learning opportunities

University of Virginia, 'Cracking the Coding Interview' Course Instructor, Charlottesville, VA Spring 2017

- This course of 50 students prepared computer science students for technical interviews

- Through instruction and mock interview I aimed to make students more comfortable with the rigorous technical interview process

Phi Eta Sigma National Honor Society, National Society of Collegiate Scholars, Pi Beta Phi Sorority

Other Work Experience

S&P to Taste (catering business), <i>Kitchen Assistant & Manager and Server</i>	2009-Present
University of Virginia , <i>Differential Equations Course Assistant, Charlottesville, VA</i>	Fall 2015
The Harvard Shop , <i>Sales Associate, Cambridge, MA</i>	Summer 2015
Private Tutoring Business , <i>Self-Employed, South Orange, NJ</i>	2009-2015