Sonu Chavakula

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Skilled in Full-Stack development & Test Engineering with three 3 years of experience in academic projects and internship experience. Proficient in creating manual & automated case-specific testing procedures and web-based application testing for a variety of applications.

Skills:

- Languages: PHP, Java, JavaScript, jQuery, C++, Python, HTML5
- Frameworks: Swift & iOS Development, .NET, Angular
- Databases: Oracle, MySQL, MongoDB, Maria DB, PostgreSQL
- Agile Software Development Process: Scrum
- Tools: Docker, Tableau, Microsoft Office, Adobe Premiere Pro, Adobe After Effects, Adobe Photoshop, FileZilla, Brackets, XCode, Bootstrap, WordPress, Git, WireShark, SharePoint & Eclipse
- Other Technologies: Amazon EC2, Amazon S3, AWS Lambda, Amazon API Gateway, Azure Virtual Machines, Azure Container Service, Azure Functions, Azure Storage-Standard Cool

Education:

University of Missouri-Columbia (2014-2018)

- Bachelor of Science in Information Technology, Computer Science & Business Administration

Experience:

Biomedical Systems, St. Louis, MO (June-August 2017)

- Interned in the Software Development Department
- Wrote scripts in Python, SQL & SAS to acquire & visualize data from their database
- Used PowerShell to automate various daily tasks i.e. populating excel spreadsheet with data

Achievements/Affiliations:

- University of Missouri Dean's Honor List
- *MCA (Mizzou Computing Association-University of Missouri-Columbia) (2014-2018)*

Relevant Courses:

- Software Engineering I
- Database Applications and Information Systems
- Object Oriented Programming
- Algorithm Design and Programming II
- Mobile Application Development
- Network Protocols
- Operating Systems

Languages:

- Spanish

Relevant Projects:

- **Smart Crypto currency Wallet**
  - <u>Overview</u>: Using Python scraping algorithms to scrape Google and Twitter news/trends to analyze the data and make a suggestion to the user regarding trades and investing your crypto currencies whether it is bit coin or any other popular crypto currencies. Display market cap data.
  - <u>Development</u>: Used Python scraping algorithms to gather data on new trends in the market using Google trends API. Used Python deep learning algorithms to analyze these trends and provide suggestions regarding trading your crypto currencies. Set up a MongoDB database to store all of our data. All of the front-end web development was done using JavaScript, jQuery, PHP, HTML5, CSS & Node.js. The website was hosted on Amazon Web Services (AWS).
  - <u>Environment</u>: *Python, PHP, MySQL, JavaScript, jQuery, HTML, CSS & Node.js (Agile)*

- **iOS Application Development: Parking Panda**
  - <u>Overview</u>: A parking app set up similar to Airbnb, where owners of parking spots are able to rent out their spot for a set period of time and renters can find spots based on zip code or address. Users have an option to view the app in a map view or a list view depending on what they are most comfortable with.
  - <u>Development</u>: The app UI and user authentication were all developed using Swift. The map feature was handled using a Google maps API. The data was stored as JSON objects.
  - <u>Environment</u>: *Swift (Agile)*

- **University of Missouri-Columbia I.T Department Research**
  - <u>Overview</u>: The project was to research and compare different malware analysis solutions in order to propose an ideal solution for the University of Missouri I.T department. Throughout this study, our team used online and local malware solutions to measure different aspects of the process including: installation, configuration, cost, and results. The malware being tested range across the spectrum and have vastly different behaviors when deployed. Some of the malware types include: Ransom ware, Rootkit, worms, viruses, etc. The local solutions we have chosen are IRMA and Cuckoo, and for online solutions, Hybrid Analysis and FBI malware investigator.
  - <u>Malware Tested</u>: ZeroAccess, OnionDuke, Fareit, Cerber, TeslaCrypt, Kovter, Emotet, Shamoon, Cutwail & WannaCry
  - <u>Environment</u>: *Ubuntu Virtual Machine*

- **Database Applications and Information Systems**
  - <u>Overview</u>: Set up a database on MariaDB for a startup and develop a functional live website that is used to search/insert/update/delete data from the database. The website contained user authentication and functionality of the site depends on what type of user (customer, engineer, HR & administrator) logged on.
  - <u>Development</u>: Used SQL queries to insert, update, and delete the data from our database. PHP was used to link the webpages to the database in order to insert, update, and delete the data via the webpages. The front-end web development was done using HTML5, CSS, JavaScript, jQuery and PHP. Website was hosted using Amazon web services (AWS) EC2.
  - <u>Environment</u>: *PHP, HTML, CSS, JavaScript, jQuery and PHP (Agile)*