

# Hrishikesh (Rishi) Kashyap

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## EDUCATION

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- **University of Massachusetts Amherst** Amherst, MA  
*M.S. in Computer Science; GPA: 3.5* Aug 2017 – Dec 2019
  - **Coursework:** Distributed Systems, Computer Security, Operating Systems, Machine Learning.
  - **Research:** Research Assistant for the Computer Networks graduate course. Built Software-Defined Networks(SDN) using OpenDayLight to control Pica-8 switches.
- **National Institute of Technology Karnataka** Surathkal, India  
*B.Tech. in Information Technology; GPA: 8.1/10* Aug 2011 – May 2015
  - **Coursework:** Data Structures and Algorithms; Operating Systems; Database Systems; Human Computer Interaction; Computer Networking.

## EXPERIENCE

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- **Kuwa Foundation** Amherst, MA  
*Software Engineer Intern* May 2019 - Aug 2019
  - **Cryptocurrency Distribution Framework:** Designed and built the outgoing payments portal using ReactJS/NodeJS to distribute KuwaCoins (demo ethereum-based cryptocurrency) to all valid users.
  - **REST Endpoints:** Created REST end points using Python/Django and PostgreSQL for storing and managing incoming user information.
  - **Solidity Contracts:** Developed and deployed smart contracts using Solidity/Web3 to handle Kuwa transactions on the Blockchain.
- **Oracle** Bangalore, India  
*Software Engineer* Jul 2015 - Aug 2017
  - **Monitoring Framework:** Developed an automated issue diagnostic and monitoring framework to save significant manpower (8 hours/week) spent resolving host and database issues.
  - **Database Update Automation:** Enhanced the Java Spring-based automation framework to build and deploy Database product updates on the cloud, thereby eliminating the manual effort required to do it.
  - **CI/CD:** Improved the Continuous Integration (CI) and Continuous Delivery (CD) processes for the product using Jenkins, reducing build failure rates by 40%.
- **Samsung Research India** Bangalore, India  
*Research Intern* May 2014 - Aug 2014
  - **Adaptive Video Recording:** Designed an adaptive video recording feature in the Android Multimedia Framework, enabling the user to record videos for a longer duration than under normal circumstances.
  - **Automatic Parameter Change:** Adapted the camera software module to change the resolution and bit-rate of the video during recording, as per defined parameters of memory and battery available.

## SKILLS

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- **Programming Languages:** Python, Java, C, JavaScript, SQL, Latex, Solidity, HTML, CSS.
- **Frameworks:** Flask, Django, PostgreSQL, Spring Boot, ReactJS, D3, NodeJS, Apache Spark.
- **Tools:** PyCharm, Jupyter, Eclipse, IntelliJ IDEA, Docker, Selenium, Hudson, Jenkins, Git, JIRA.
- **Operating Systems.:** Unix, MacOS, Windows, Android, iOS.

## PROJECTS

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- **Question Answering Framework using Linked Data:** Conceptualized and implemented a Multimedia Question Answering system using Python/Django to translate natural language questions into RDF triple pattern queries and present the user with answers(text/images/video) from various linked data sources.
- **Distributed System to manage Olympic Games simulation:** Built a distributed Olympic games simulator using Python, with features such as load balancing across servers, leader election, clock synchronization, message queues and event ordering.