

Hrishikesh (Rishi) Kashyap

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EDUCATION

- **University of Massachusetts Amherst** Amherst, MA
M.S. in Computer Science; GPA: 3.5 Aug 2017 – Dec 2019
 - **Coursework:** Secure Distributed Systems, Computer Security, Operating Systems, Machine Learning.
 - **Research:** Research Assistant for the Computer Networks graduate course. Built Software-Defined Network(SDN) protocols 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

- **Kuwa Foundation** Amherst, MA
Software Engineer Intern May 2019 - Aug 2019
 - **Solidity Contracts:** Developed smart contracts using Solidity/Web3 to handle Ethereum transactions on the Blockchain and deployed on AWS EC2 instance.
 - **Cryptocurrency Distribution Framework:** Designed and built the outgoing payments portal using React/NodeJS to distribute KuwaCoins (ethereum-based cryptocurrency) to all valid users.
 - **REST Endpoints:** Created and exposed REST end points using Python/Django/NodeJS and designed PostgreSQL database schema for storing and managing incoming user data.
- **Oracle** Bangalore, India
Software Engineer Jul 2015 - Aug 2017
 - **Monitoring Framework:** Developed an automated issue diagnostic and monitoring framework to save significant manpower (6 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, improving automation coverage to over 80%.
 - **CI/CD:** Improved the Continuous Integration (CI) and Continuous Delivery (CD) processes for the product using Jenkins, decreasing build and deploy time 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 using Java, enabling the user to record videos for a longer duration than under normal circumstances.

SKILLS

- **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

- **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.