Hrishikesh (Rishi) Kashyap

linkedin.com/in/hrishikeshkashyap/
San Francisco, CA

Email : hrishikash@gmail.com
Phone : 4134042976
Website: hrishikash.github.io

Education

- **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 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*
  - **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 REST API end points using Python/Django/NodeJS to ingest user data and performed ETL processes on it to transform and store the data in PostgreSQL database.
  - **AWS deployment**: Deployed the front-end and back-end system onto AWS EC2 instance.
- **Oracle** — Bangalore, India
  Software Engineer — *Jul 2015 - Aug 2017*
  - **Database Update Automation**: Enhanced and developed multiple features in the Java Spring Boot framework used to build Oracle Database product updates and backports on Apache Hadoop distributed processing system, thereby increasing product automation coverage by 30%.
  - **Monitoring Framework**: Developed a host monitoring and diagnostic system using Python to improve load balancing across the cluster and save significant manpower (6 hours/week) spent on identifying and resolving host and database issues in the machine cluster.
  - **CI/CD**: Redesigned the deployment process for the product by initiating new Continuous Integration (CI) and Continuous Delivery (CD) processes using Jenkins, decreasing build and deploy time by 40%.
- **Samsung Research India** — Bangalore, India
  Research Intern — *May 2014 - Aug 2014*
  - **Adaptive Video Recording**: Designed and developed an adaptive video recording feature using the Java based Android Multimedia Framework, changing resolution and bitrate of video dynamically, thereby enabling the user to record videos for a longer duration.

Skills

- **Programming Languages**: Python, Java, C, JavaScript, SQL, Latex, Solidity, HTML, CSS.
- **Frameworks**: Flask, Django, PostgreSQL, Apache Spark, Hadoop, Spring Boot, ReactJS, D3, NodeJS.
- **Tools**: PyCharm, AWS EC2, Eclipse, Docker, Selenium, Hudson, Jenkins, Git, JIRA.

Projects

- **Distributed System to manage Olympic Games simulation**: Designed and built a distributed Olympic games simulator using Python/Flask, with features such as load balancing across servers, fault tolerance, clock synchronization, and event ordering.
- **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.