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GANDHARV KAPOOR

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EDUCATION

Masters in Computer Science	**Stony Brook University**	**Aug 2016 – Dec 2017**
Coursework: Distributed Systems, Databases, Data Science		GPA: 3.75/4.0
Bachelor in Computer Science	**IIIT - Delhi**	**Aug 2011 – May 2015**
Coursework: Cloud Computing, Mobile Computing, Machine Learning		GPA: 8.00/10.0

EXPERIENCE

Senior Software Engineer - ML Platform Infra   **DocuSign, San Francisco, CA**   **Feb 2021 – Present**
- As a founding member of the team laid the foundation of **Machine learning inference pipeline infrastructure**.
- Proposed and delivered the feature for **configurable dynamic batching and asynchronous execution** of pipelines.
- Integrated and delivered pipelines for **multiple document analysis and vectorization models into the runtime** environment.
- Currently leading the effort of **migrating on-prem pipeline to Azure cloud** using **Kubernetes, Kube-flow, Triton, and Seldon.**
- Leading **other initiatives** such as **proposing product roadmap**, **quarterly planning, adoption, onboarding and hiring.**
- **Awarded Spot Award** as a recognition of my performance and contribution **for the year 2021.**

Senior Software Engineer (ESXi Platform Infrastructure**) VMware, Palo Alto, CA**   **Feb 2018 – Feb 2021**
- **Responsible** for implementation and designing of NextGen Cluster Operation Workflows for VMware ESXi hypervisor. This involves application, remediation and upgrade of various cluster configurations between multiple ESXi nodes and central vCenter node in a distributed system environment.
- **Enhanced** cluster configuration **performance**, reduced write latency by introducing SQL datastore per node moving away from existing file based solution.
  Independently delivered **System storage rollback** during cluster upgrade failures under tight schedule and deadlines.
- **Design, Architect and Develop** Platform APIs, facilitate product adoption collaborating with different teams companywide.

Intern, Member of Technical Staff   **VMware, Palo Alto, CA**   **May 2017 – Aug 2017**
- Developed and integrated Host profile server side APIs with VMware vAPI Endpoint.
- Exposed these APIs through CLIs, SDKs and REST for automating management and configuration of ESXi Host Profiles.
- Received return offer as a recognition for good performance.

Software Developer   **Routofy, Delhi**   **Sep 2015 – Apr 2016**
- Lead the design, development and deployment of Routofy android, iOS client.
- Took care of performance, reliability, services, UI/UX (Material Design), backward compatibility.
- Built **Java Spring REST APIs** on server side and integrated them with the application

Software Developer & Intern   **S&P Global Market Intelligence, Gurgaon**   **May 2014 – Sep 2015**
- Developed an API compatible Excel Request Item builder as an extension to S&P Excel Plugin product.
- Performed validation and modifications of request parameters into appropriate API compatible parameters.

PROJECTS
- **Distributed History-Based Access Control Policy Evaluation** (GitHub Link)   **Distributed Systems**
  Implemented algorithm described in - Scalable and Secure Concurrent Evaluation of History-based Access Control Policies.
  Improved existing algorithm by using Multi Version Concurrency Control with Timestamp Ordering (MVCC-TSO).
  Re-Implemented the above system and conducted performance evaluation & comparison.
- **RRC Packet Sniffer** (GitHub Link)   **Independent Research**
  An **open source tool** built for the performance evaluation of apps having high signaling overheads.
  The application captures tcp, udp and icmp data packets with corresponding RRC state transitions simultaneously.
  Binary executable of libpcap, compiled with Android NDK is launched in a shell with super privileges for packet capturing.
- **Wi-Find** (Wi-Fi Localization)   **Cloud Computing**
  Proposed an indoor positioning application based on Wi-Fi signals and strength maps.
  Built a backend support using **Spring MVC and MongoDB** for capturing and processing of Wi-Fi signal strength map.
  Geographical coordinates were predicted and sent to clients based on trained signal data.

TOOLS AND TECHNOLOGIES
- **Programming Language:** Python , Java, C#, C++
- **Databases:** SQL, PostgreSQL, SQLite and MongoDB
- **Tools and Technologies:** IntelliJ, Eclipse, Visual Studio, Git, MATLAB, JIRA
- **Frameworks:** Kubernetes, Kube-flow, Seldon, Spring MVC, Django, JQuery, OpenGL, Hadoop, HBase, HDFS

ACHIEVEMENTS
- Graduate Teaching Assistant for System Administration Course (CSE 311) Spring 2017.
- Undergrad Teaching Assistant for Human Computer Interaction Course Spring 2015.
- JSTSE Scholarship Department of Science & Technology, Govt. of India.
- First in Byld Hackathon. Represented Routofy at Uber Hackathon. Finalist in LinkedIn Hackathon.