SAINATH LATKAR

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SUMMARY

Computer Science graduate student with four and a half years of extensive hands-on experience in developing low latency distributed platforms along with ReactJS front-end apps as a full-time Software Engineer.

EDUCATION

Arizona State University **Expected Dec 2020**

Master's in Computer Science **GPA : 4.22**

Coursework – Distributed database systems(A+), Cloud computing (A+), Mobile Computing (A), NLP, Data Visualization, Data Mining.

College of Engineering, Pune, University of Pune, India

Bachelor of Technology, Information Technology **Aug 2012 - Jan 2016**

TECHNICAL SKILL

Languages:	C++, Java, Python, Bash, JavaScript, HTML, CSS
Backend technologies:	Micro-Services, TProxies, Rest**,** GraphQL, NoSQL, MVC, Multi-Threading
Web Technologies:	HTML, CSS, jQuery, PHP, Bootstrap framework, Django, React+React Native, D3.js
Servers:	Nodejs, Flask, Django, Ruby on Rails
Databases:	Dynamodb, ElasticSearch, MySQL, PostgreSQL, MongoDB, Redis, Sybase, Oracle

PROFESSIONAL EXPERIENCE

Credit Suisse, Pune, India: **July 2016 - Dec 2020**

ENO: Order and Quote Management System, Global Markets

- Owner of client-side C++ and JAVA API (used to connect to **Order and Quote Management system**- Agora). Accomplished migration of over 300 client applications across from slower FIX tag-based protocol to new Hermes binary serialization protocol.
- Implemented core changes in the order management system like designing data types to improve precision and accuracy of average price calculations, integrating changes in binary serialization, making distributed components recoverable and fault-tolerant.
- Managed quarterly production releases of Hermes API flavors in C++, Java, and C#, mediated API side functional requirements, and acted as technical support for client queries related to API functionality, usage, and connection to OMS Agora and its TProxy components.
- Developed a distributed monitoring and deployment framework "AgoraMon" in Python for performing pre-trade application health checks on distributed server infrastructure and managing deployments which reduced the monitoring cost by 70,000 USD per quarter.
- Streamlined client-side UAT Testing by developing a web app in ReactJS with backend in NodeJS for easily accessing UAT trades data by providing OrderID and client team names.
- Maintained tools that selectively inserts "Good till Cancel" orders back into the OMS (TifSweep) and places cross-regional orders (AgoraToAgora- A2A), copies transaction logs data to MongoDB in near real-time.
- Recruited, mentored, and managed a team of two developers who worked on Hermes library and later on transferred ownership of API.

Credit Suisse, Bangalore, India: **July 2016 - July 2017**

Technical Analyst: Scenario-Based Risk-Weighted Assets, Risk and Finance IT

- Re-designed intermediate holding company report generation for Securities Financing Transactions on multi-node RHEL cluster with concurrency support, which reduced the processing time of the process from 36 hours to less than 4 hours.
- Built a React web tool for business analysts that generates narratives (impact of risk calculations) and helps analyze the effects of various risk factors on an Order tree using scenario-based risk-weighted assets procedures.
- Designed and developed a scheduler and automated the entire production runbook of the CCAR 9Q, SRWA, and IHC extract generation process.

Persistent Systems, Pune, India: Summer Intern **May 2015 - July 2015**

ShareInsights:

- Added support for Open-source libraries- Numpy, SciPy, Pandas, and User-defined functions in ShareInsights script, a Big data analytics platform.

SELECTED ACADEMIC AND HACKATHON PROJECTS

Montage Wizard: Cloud computing **Mar 2021**

- Created a react web application with flask backend on Google cloud platform to extract specific quality content short video clips from hours on end long twitch streams of popular ESports streamers for Apex Legends video game.

Distributed systems on Android phones: **Feb 2021**

- Implemented distributed system architecture on a set of mobile phones using a mobile app that runs in master or slave mode and distributes a computing power demanding task to multiple wifi connected phones and aggregates the results back at the master at the end of the computation.

Colab Plus: Founder and CTO (Instagram Influencer Marketing Company) **Jan 2017 - Jul 2018**

- Developed iOS app in react native, implemented real-time chat functionality using Ruby on Rails actionable.
- Implemented Ruby on Rails servers that could support 1000 requests per second with 10-millisecond latency for chat messages.

Kindly check out my personal site at sainathl.com for knowing in detail about the above-mentioned and other interesting projects.