Rahul Suresh

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SUMMARY

Graduate student in Software Engineering with 3 years of industry experience seeking opportunities in the field of Software Development and Engineering.

EDUCATION

- **Master of Science, Software Engineering** *Graduating 2021*
  Arizona State University(ASU), *Tempe, Arizona* GPA: 3.92/4
- **Bachelor of Engineering, Information Technology** *Jun 2016*
  SASTRA UNIVERSITY, *Tanjore, India*

TECHNICAL SKILLS

Programming: Python, Java, React, Node.js, JavaScript, C#, Prolog, CLP, GraphQL, Angular 2, OWL, HTML5, CSS, C++, C
Databases: MySQL, PostgreSQL, SPARQL, MongoDB, MS Access
Web Technologies and Frameworks: Express, Angular, Restful API Services, Asp .net, MVC, Swing, Docker, Kubernetes

WORK EXPERIENCE

Software Engineer - TATA CONSULTANCY SERVICES (TCS) *Jun 2016 – Jul 2019*

- Enhanced Citi Bank's Credit Bureau (E OSCAR) System by remodeling the legacy .Net framework into a much-optimized Angular framework complemented by technologies like Restful API on Spring boot
- Created batch jobs to process huge chunk of incoming raw (.csv) case files that led to a drastic spike in the system's performance by cutting down of cycle time by almost 99%
- Proposed and implemented intuitive features of a credit card fraud application that accentuated the user experience and efficiency of the system
- Received lauds like Best Employee of the Project Award, Shining Star Award, Spontaneous Award, Technical Excellence Award for being able to provide quick and efficient deliverables
- Built a pool of SSIS(.dtsx) packages involving SQL, .Net Scripts and achieved its independent automation by designing a scheduling system using Autosys
- Worked alongside Data Analyst and System Architect, as Project SPOC, to formulate the data, control flow and data entity model (DB) upon migrating application
- Increased the security by manifold through migration of application-level encryption algorithms from a primitive RC4 to an advanced one-way SHA-256 hashing algorithm
- Worked on SQL Database Server and Standards migrations thereby boosting performance

RESEARCH PAPERS & COLLABORATIONS

- 'Semantic Analysis on Location-based social networking data - A novel approach to profile Users based on Sports Interest', an approach using semantic web mining involving sentiment analysis to classify user profiles employing OWL ontology, VADAR, Python *Dec,2019*
- Core Founding Team and Technology Head – Fixyard Technology Solutions Pvt., Ltd.
- Research Aide/Web-Developer under Dr. Katina Michael in the *School for the Future of Innovation in Society Department*
- Full Stack Web Developer and Technical Advisor for Hack for Humanities at Project Humanities *June,2020*

ACADEMIC PROJECTS

- Designed '*Trace*'-an Imperative programming language and its Interpreter: Python regulating lexical analysis and tokenization bound with logic programming (Prolog) to design the syntax and semantics of the language *Jun,2020*
- Developed a Single Page Customer Survey Application with behavior matching and history tracking employing Node.js in Express framework communicating using REST API on AJAX calls. *Nov,2020*
- Structured and Developed a user interactive GUI application to render the Multi-threaded dynamic computation of top 3 shortest path of real time Large Geo-spatial Datasets for TSP problem using Swing employing appropriate Design patterns governing the MVC architectural pattern. *Oct,2020*
- Built an application to Decipher, Compute, and Render Advanced Driver Assistance Sensor System data coupled with Geolocation data to detect and warn the user in real-time about the approaching curve on the road. Nov,2020
- Collaborated and Created *'Proquation – An Adaptive and Interactive Student Learning Application'* – a project hosted with Java, MySQL, HTML, CSS, jQuery, Junit with Facade, Adapter, Bridge, Iterator design patterns to include interactive and intuitive UI/UX to make the learning experience enjoyable *Oct,2019*
- Devised and Designed the control flow and UI/UX of a complex real world customer application for an Automobile After sales service startup and secured the 2nd place among 100 initial applicants along with the seed funding with the Centre for Entrepreneurship Development and Incubation (CEDI) at National Institute of Technology, Trichy (NITT) *2018*
- Researched and developed a highly secure Password Recovery System based on *asymmetric encryption* by *image processing to implement public key encryption through Pixel color manipulation* *2016*