Rahul Roy Mattam

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EDUCATION

UNDERGRADUATE DEGREE	INSTITUTION	AGGREGATE	YEAR
Bachelor of Technology in Computer Science and Engineering	Govt. Model Engineering College, Cochin University of Science and Technology	74.86%	2011-2015

TECHNICAL SKILLS

- **Technologies:** C#, WPF, JavaScript, Golang, C, C++, Python, SQL, Elasticsearch, Node.js   **Web UI:** HTML, CSS, AngularJS.
- **Tools:** Gopkg, Heroku, Jenkins, Redis, GIT, perforce, MS SQL Server, Nuget, LiteDB   **Platforms:** Unix, Windows.

PROFESSIONAL EXPERIENCE

- **FACTSET SYSTEMS INDIA Pvt. Ltd., Hyderabad**   **Software Engineer III**   **June 2015 - Present**
  Role: Research and Development Software Engineer to enhance FactSet's Fundamentals Data collection workflows
  KEY PROJECTS:
  AGERA DISTRIBUTED CACHE SERVICE - Designed and developed a distributed caching web service with a master-slave architecture self-hosted on remote windows servers with load balancing for optimal cache space usage and detailed monitoring on Elastic Kibana logs.
  EQUATION AUTOMATION USING ELASTICSEARCH - Automated collection of financial arithmetic expressions collected by analysts from company earnings reports by indexing expression patterns and checking context similarity with historically collected reports.
  GOPKG – Setup an in-house version of the open-source gopkg.in service to work with private enterprise git repositories.
  DATA VALIDATION FRAMEWORK – Implemented a robust and fast ruled based data validation system with configurable rules using a rule composer. Its design enables multiple data collection tools in FactSet to take advantage of its features.
  INBOX WEBAPP – Rewrote a service that manages analyst workflows from C# WEBAPI backed with SignalR to Golang backed by web sockets and Redis channels for synchronizing real time data across client connections.
  ASPRESENTED CONTENT – Developed a data collection tool with workflow configurations for tracking work and productivity of analysts who use the tool. This tool enabled the launch of a new content set in FactSet called As Presented Content.
  LION IMPORTER – Developed a job that took advantage of SQL bulk APIs to transfer data in seconds from a feed called Lion.
  FINANTULA REF WEBAPP and AUTOCALC SERVICE – Refactored FactSet Fundamental's AutoCalc service to optimize database interactions with SQL and ElasticSearch. Enhanced the accompanying Web Application written in AngularJS to support configuring AutoCalc rules.
  MARKOV DECISION PROCESS – Built a prediction system that utilized probabilities of code execution in a Markov decision process matrix to reduce request latency and suggest user actions for training beginner financial analysts.
  VALIDATION WITH GENETIC ALGORITHM – Built a service for FactSet's Data Collection app to validate data collected by generating algebraic expressions as population sets and having single point cross over with mutation to create child generations.
  JENKINS CONTINUOUS INTEGRATION – Configured 20+ services that were always built and deployed using batch scripts due to configuration complexities to finally take advantage of Jenkins CI.
  PERFORCE MIGRATION – Initiated discussions, Advocated GIT and Migrated 90% of my team's source code and version control history maintained in Perforce SVM to FactSet's GitHub Enterprise Repository using the git-p4 python script
  XBRL Project – Updated Collection tools to support XBRL documents in US and JAPAN markets to help improve automation

- **YOYO AEROSPACE Pvt. Ltd., Cochin**   **Software Engineer Intern**   **May 2014 – July 2014**
  Role: Research and developing Android Applications and Backend APIs for home security using IOT
  KEY PROJECTS:
  Door Lock Automation, Networked Home Appliances Automation - Developed an Android Application that controlled an Arduino Microcontroller installed on target devices via Bluetooth.

ACADEMIC GRADED PROJECTS

- **Project: Cloud IDE for C**   **Team Size: 4**   **Duration: 6 months**
  Developed an IDE for C hosted as a Node.js Web application using the GCC compiler with Rich Code Editing features like Autocomplete, syntax highlighting and search for C algorithms which are crowd sourced and indexed with hashtags.
- **Project: Indic Language support for Android**   **Team Size: 4**   **Duration: 3 months**
  Rendered Unicode Characters as recognizable text using Script Renderer module of the SILPA Framework for older web browser versions in Android which lacked native Unicode support.

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ACHIEVEMENTS

- Blue Ribbon Award in FactSet for exceptional performance in FactSet projects
- Fastest employee in FactSet to be promoted to Software Engineer III among my peers
- Machine Learning by Stanford University on Coursera. Certificate earned on July 2, 2016
- First Prize Winner. 55444 Hackathon. Developed an information system for expecting mothers accessible through SMS

ARTICLES

- "A scalable multi-channel golang messaging server on Heroku" – Medium.com.

CONFERENCES

- "Agera Cache System" at a FactSet developer conference on February 17th, 2017 at Avasa Hotel, Hyderabad, India.
- "Validation with Genetic Algorithm" system at a FactSet developer conference on December 15th, 2017 at Avasa Hotel, Hyderabad, India.

INTERESTS AND ACTIVITIES

- Was part of recruitment drive for hiring Software Engineers to FactSet from Alma Mater and FactSet on site interviews.
- Participated Actively in all College Technical Festivals from 2012 to 2015
- Played crucial roles in IT support, web development and graphic designing for all major events in the college like Sociopreneur, Technopreneur and TEDxMEC from 2012 to 2015
- Developed and Hosted Online Treasure Hunt event Kryptos - 2015 in the College.
- Local Guide on Google Maps, serving moderator roles with frequent map edits, fact checking, edit approvals, photo and review contributions
- Participated in All India Inter-University NATIONAL and SOUTH INDIA ZONE level Youth festival as a Keyboardist. Represented Cochin University of Science and Technology.
- Plays the Keyboard, Guitar and Harmonica. Plays sports including Soccer, Basketball, Badminton and Swimming.

POSTIONS OF RESPONSIBILTY

- Engineering Recruiter for FactSet Fundamental's software engineering team.
- MACS event organizing committee member 2014 - 2015. MACS is the Computer Science Club of Govt. Model Engineering College.
- Time and Clash of Events Manager for Excel TechFest 2013.
- Lead Designer, Design Team Excel TechFest from 2013 to 2015
- Event manager, Roboversity Workshop on Swarm robots
- Music Team Manager and Head, of the college team for Cochin University Youth Arts Festival.