

#Programmer, #ProductDeveloper, #Designer, #Architect, #Researcher, #Teacher, #ProblemSolver, #SmartThinker

Work Experience (Software Professional)

Software Specialist – SAS R&D India – Apr 2019 till date

- **Project – BIDashboard (C++, JAVA)**
 - Implemented histogram to replace legacy histogram implementation in 3 months to avoid revenue loss
- **Project – SAS Graph Lib (C++)**
 - Redesigned 8+ graph components to improve time complexity by 15% to 18% and memory complexity by 20%
 - Code restructure of series and time series components is in process to replace legacy components
- **Project – SAS CI360 (C++)**
 - Provided consultation to CI team for schedule chart optimal usage to resolve their customer queries
- **Mentorship and Leadership**
 - Mentored new joins to be productive in 3 months to reduce project on board time by 50% using phased approach
 - Mentoring intern's master project 'Study and Implementation of Intelligent Visualization Recommender Systems'
 - Involved in recruitment activities, work assignment, sprint planning, project topic selection and technical forums
 - Contributing to SAS Graph Template Language that standardizes the graph features across implementations

Senior Software Engineer – SAS R&D India – Apr 2015 to Mar 2019

- **Project – GTest for SAS Graph Lib (C++, GoogleTest)**
 - Explored GoogleTest to unit test SAS Graph Lib codebase that helped finalizing the framework in 6 months
- **Project – SAS Portable Formats Lib (C++, JAVA)**
 - Implemented 20+ formats for parity with legacy implementation that SAS VA uses to have readable report text
 - Implemented DST support for portable formats to cater to SAS VA requirements to improve VA reports for I18N
- **Project – Accelerated Computing (C++, CUDA, OpenCL)**
 - Explored of GPGPU technology on client end that reduced data processing time by 50% or more
- **Project – SAS Graph Lib (C++)**
 - Implemented series and time series to enrich graph library which added value to SAS Visual Forecasting
 - Implemented tree map and features for SAS VA it also increased parity in legacy and C++ implementation
 - Developed vector plot to better visualize SAS Visual Statistics reports
 - Developed heat map to cater to requirements from SAS VA, SAS VF and SAS VS products in short time
 - Maintained scatter and step plots, pie, bar and line charts on need basis for SAS VA bugs within SLA limits
- **Leadership Initiatives**
 - Chaired 'TechForum' and 'LTGT' platforms in SRDI for knowledge sharing that benefited all with on job learning

Software Engineer – SAS R&D India – Apr 2013 to Mar 2015

- **Project – SAS Intelligent Planning Suite (C++)**
 - Developed schedule chart to cater to requirements of SAS IPS products that helped them visualize the tasks
- **Project – HTML5 DOM Study (JavaScript, HTML5)**
 - Explored DOM manipulation time for web reports that helped finalize the trans-compilation strategy in 5 months
- **Project – SAS Banking Suite (C++)**
 - Implemented waterfall chart for SAS BS product requirements that helped them to visualize live transactions

Associate Development – SAS R&D India – Jun 2012 to Mar 2013

- **Proof of Concepts (Sencha, Dojo, JavaScript, HTML5)**
 - Explored Sencha and Dojo frameworks, created PoC to highlight the ease of script based data visualization
 - Explored network diagrams, created PoC to emphasize use of the same in SAS Enterprise Backup solution
 - Developed a working UI interface for SAS Enterprise Backup solution
- **Project – SAS Environment Manager Integration (SAS tools)**
 - Explored and shared steps to integrate SAS Solution with SAS EV Manager for consistency across solutions

Work Experience (Teaching Professional)

Visiting Faculty – University of Pune, Computer Science Department (PUCSD) – Dec 2012 to May 2016

- Introduction to Artificial Intelligence (2015-16 – M.C.A., M.Tech., M.Sc. Students – Batch size : 30)
- Building Search Engines (2014-15 – M.C.A., M.Tech., M.Sc. Students – Batch size : 30)
- Building Search Engines (2012-13 – M.C.A., M.Tech., M.Sc. Students – Batch size : 30)

Internship (Full Time, Term Long Internship)

Intern / Co-op – Sybase an SAP company – Jun 2011 to Nov 2011

- Developed and automated unit and integration test suites for SybaseIQ GUI utility that reduced manual testing efforts
- Regression tested SybaseIQ GUI utility manually

Research and Publications (Technical Papers, Trainings and Workshops)

- Boost Visualization Experience With Modern Graph Techniques – TechExpo2019 (One of the top 3 papers)
- Empowering SAS Solutions Through Advanced Visualizations – TechExpo2018
- Leveraging GPU Power to Accelerate Data Visualization – TechExpo2017 (One of the top 3 papers)
- Quantification and Analysis of Communication for Corporate Success – TechTalks2015
- Use of Arc Diagrams in Correlograms and Affinity Maps – TechTalks2014
- Speech Interface for SAS Software – TechTalks2013
- Steps to Integrate with SAS Environment Manager – TechTalks2013
- Association Rule Mining using Apriori Algorithm and Sampling – TechTalks2012

- Symposium on Computing, Science and Education – Feb 2018 – University of Pune
- SAS Visual Statistics – Jun 2015 – SAS R&D, India
- Statistical Concepts – Jun 2013 – SAS R&D, India

- SAS Global Forum 2020 – SAS Visual Analytics App booth duty – Washington D.C., USA – Apr 2020

Technology Stack

- **Comfortable Languages**
 - C, C++
- **Familiar Languages**
 - JAVA, Python, JavaScript, HTML, CUDA
- **Frameworks**
 - GoogleTest, OpenGL, Sencha, Dojo
- **Tools**
 - XCode, GIT, VSCode, Visual Studio, SourceTree

Education

- **M.Tech. – Software Systems – Birla Institute of Technology and Science, Pilani**
 - Specialization: Data Science (Artificial Intelligence, Machine Learning, Data Mining, Data Warehousing)
 - CGPA: 8.14 / 10
- **M.C.A. – Computer Applications – University of Pune, Computer Science Department, Pune**
 - Specialization: Computer Applications (Algorithms, Data Structures, Databases, Computer Graphics, Software Engineering, Programming Paradigms)
 - CGPA: 4.2 / 6
- **B.Sc. – Mathematics – Fergusson College, Pune**
 - Specialization: Computational Mathematics (Number Theory, Cryptography, C Programming, C++ Programming)
 - Percentage: 54 %

Extras

- Mensa, India topper with 99+ percentile
- Tech Forum moderator at SAS R&D India
- Training kids for Mathematics exams
- Training related to problem solving