Shailesh Nair

Interested and keen to design and develop innovative solutions for problems in business using my technical, managerial and analytical skills.

Thiruvananthapuram, KL | +91 9633729572 | shailamie@gmail.com

in www.linkedin.com/in/shaileshbnair 🌐 shailamie.appspot.com/

Work experience

Senior Engineering Manager   2014-06

Grindan IT Consulting Services Pvt Ltd

1. Providing Technology Consulting for Swedish, Norwegian and German Clients.

2. Responsible for designing framework of different products, identifying benchmarks for recruiting candidates based on technical skills required for development, communicating with stake holders for identifying requirements, involved in organizing the team.

3. Developed Low Frequency and Medium Frequency Trading Apps for Norwegian Hedge Funds/Proprietary Trading Firms in C#, C++, Apache Kafka.

4. Developed ETF Analysis Apps using C#, Power BI, MultiCharts and IQFeed API.

5. Developed Markowitz Portfolio Optimization by assigning random weights to portfolios.

6. Applied Leaky RELU Activation Function in Deep Learning to update weights of different portfolios in Forward and Backward Propagation.

7. Working in Neptune Designer for designing Time and Travel app, Neptune UX Platform and Neptune DX Platform with Planet 8 and Planet 9.

8. Responsible for Projects Delivery based on the schedules designed and also in providing software services promptly as and when required by customers.

9. Worked in Laravel 5.3, Eloquent, Python 3, scikit, numpy, d3.js, Php, Symfony , Unity 3D, Blender, WebGL and mathematical modeling algorithms like Runge kutta, Stochastic calculus, etc.

10. Designing and Developing frameworks for Enterprise based products from scratch.

11. Designing load balancing server which can be distributed and can be accessed by different client systems including Windows,Mac OSX,iOS,Android and Ubuntu.

12. Designing framework to implement ESB (Enterprise Service Bus) Architecture which communicates or passes messages to different clients.

13. Messaging Architecture in Middle Ware technologies are done with the help of Apple Push Notification Services (Customized) and integrated with RabbitMQ.

14. Managing Outsourced teams and also involved in Digital Marketing.

15. Involved in Developing applications using SAP UI library,Fiori UX guidance for Business components in SAP ECC modules.

16. Involved in designing and developing Continuous Integration Framework which performs automated tests and deployment to different customer locations.

Portfolio

Distributed Systems
▰▰▰▰▰▰▰▰▰▱▱

This website contains information of Distributed system techs that i have used for creating enterprise projects.

https://sbnair.github.io/distributed_systems/

Full Stack
▰▰▰▰▰▰▰▰▰▰

This website contains information of full stack techs that i have used to solve problems of different customers.

https://sbnair.github.io/fullstackDev/

Data Science
▰▰▰▰▰▰▰▰▰▰

This contains information of data science projects that i have worked containing different tools and skills which was used to solve problems for different customers.

https://sbnair.github.io/datascience_portfolio

Ecommerce/Multi channel commerce consulting experience.
▰▰▰▰▰▰▰▰▰▱▱

1. Oracle ATG Commerce, Endeca Experience Manager.

2. Designed Omni-Channel retailing.

3. J2EE Integration done.

4. Opensource - Php, Laravel, MySQl Db.

5. Opensource - ASP.NET MVC, Sql Server.

EDC and ODC Teams
▰▰▰▰▰▰▰▰▰▱▱

17. Related to GUI techs now using ASP.NET MVC,WPF,Objective C,Html 5,Jquery,Php,SAP UI 5.

18. Requirement Specification is done using Volere Specification Template.

Technical Manager/architect   2012-09 - 2014-05

NeST Technologies

1. Working in developing a SAAS based engineering and business application product for aviation industry.
2. Responsible for designing and developing Enterprise Grade software product from Scratch.
3. Involved and Responsible for System Architecture,Application Architecture,Business Architecture and Technology architecture.
3. Training Developers in advanced technologies and framework that i design and implement.
4. Communicating with business domain experts.
5. Responsible for supporting a team which includes freshers,senior developers,team leads,Quality assurance and Business Analysts.

Domains Worked
1. Aerospace (ERP,Flight Data Analysis,Business Intelligence) following FOQA guidelines.

Technologies Used
1. Architecting and developing projects in WPF,Silverlight,Prism 4.1,ASP.NET MVC 4,BigData,Sql Server using agile methodology (SCRUM).
2. Designed and implemented multi tenancy architecture in cloud(Azure) using hadoop stack.
3. Designed and Developed 3D Flight simulator animation using expression blend and other opensource tools in wpf .
4. Used Distributed Caching servers to balance load across all servers.
5. Machine learning algorithms is being used for fuel management using unstructured data.

Software Product Architect   2010-10 - 2012-08

5Y Technologies

1. Following Scrum(Agile software development) methodology for managing and developing multiple products and projects for a US based company named SchoolinSites.
2. I design frameworks to build enterprise oriented products using technologies like Silverlight 5,php,ASP.NET 4.0(Ajax),ASP.NET MVC 4 (query),WPF,Objective C,Html 5 and also involved in building business models by communicating with clients.
3. MEF,MVVM,Caliburn(Micro),Prism 4.1 are mainly used in developing web based products.
4. Also involved in developing apps based on OpenXml technology.
5. Have developed animations in IOS apps based on OpenGL technology.
6. Developed SaaS based web apps and also worked around with issues that come across with SaaS grid.
7. Telerik based tools has been used intensively in development.
8.SpreadSheetML,PresentationML,WordProcessingML,Drawing ML is used intensively.
9. RavenDB and MongoDB is used for logging and searching purposes.
10.Implemented multitenancy concept in in-house and commercial websites succesfully.
11.Customizing objective c(iphone/ipad) controls according to clients needs.
12. Involved in designing and building BPM app.

Domains Worked :
1. Education Domain (Schools in US).

Worked in Extended Data Centers and Off shore Data Centers for different clients which allowed me to communicate with different multicultural teams from various parts of the world.

Remote Work
////////////
Have worked with different teams remotely from different parts of the world like Asia, Europe, US, Australia.

Have used remote tools like Slack, WebEx, Skype, Zoom, etc to communicate and understand requirements.

Startups
////////////
Have worked in earlier stages of startups like Requirement Gathering, Developing MVP, Gathering Funds, Planning Development Costs, Team Design and Recruitment, Server Design and Project Management, Coding, Various Testing Scenarios, Pre-sales and Post-sales of many Products developed.

Total Experience

Software Development (Hands on) : 18+ Years.

Software Management : 7 Years.

Blockchain Engineering : 3 Years

Design Patterns : 10 Years.

Data Science and Analysis : 6+ Years

Ecommerce Development: 7+ Years.

Mathematical Models : 1 year

Deep Learning : 2 Years

Capital Market Analysis : 2+ Years

Managed Team Size : 4 to 50 team members.

Two Pizza Team : Worked in a group with a Two Pizza Concept.

Solo Developer : Worked as solo developer when needed.

Domains

Developed Software Solutions :

Technologies Used :
1. Silverlight 5,php,ASP.NET 4.0(Ajax),ASP.NET MVC 4 (query),WPF,Objective C,Html 5
2. Sql Server 2008,Sqllite.

Researcher   2010-10 - 2011-07

Genzeon Corporation

1. Involved in design of Datamodel,Business model and UI framework.
2. Involved in desiging ERP apps using Prism 2.0 and 4.0 framework.
3. Finding best solutions to satisfy clients requirements in an efficient way keeping both
cost and quality in mind.
4. Helping team to fix issues and train them to use framework that i developed.

Domains Worked:
1. Pharmaceutical company (Document Management System)

Technologies Used :
1. Silverlight 4,MVVM,Caliburn Micro
2. WCF,Rules Engine
3. C# 4.0,Sql Server 2008

Senior Software Engineer   2009-10 - 2010-10

Ness Technologies India Pvt Ltd

Was Involved in designing,developing and maintaining frameworks for the ERP product.

Domains Worked :
1. Life Science (Clinical Trial Management System,Standalone and Web)
2. Forms Designer (Standalone)
3. WorkFlow Builder (Standalone)
4. IVR System(Telecom)

Technologies Used :
1. C# 3.5,WCF,WWF
2. ASP.NET MVC 3,jquery
3. Silverlight 4
4. NHibernate,Spring.AOP,Spring.Core
5. DevExpress Tools
6. Domain Driven Design (DDD)
7. IOC Containers(Unity,spring,castle),Dependency Injections
8. Sql Server 2008
9. Voxeo (CCXML,VXML,CFXML)
10. MEF,MVVM,MVC patterns.

Senior IT Consultant   2009-07 - 2009-10

IBS Software Services

Involved in designing framework to develop mobile product in Airlines sector for a
company named IBS software services through Thomas Mount Consulting Services.

Domains Worked :
1. Cargo product in Airlines

Technologies Used:
1. C# 3.5,Windows CE
2. C#.NET Compact Framework
3. Bar Code Scanning
4. Java Axis 2 WebServices,IBM Websphere,Spring,Hibernate
5. Oracle 9i

1. Capital Markets (Equity Trading and Research)

2. BFSI (Banking Financial Services and Insurance)

3. Avionics

4. Travel Management

5. Health Care

6. Pharmaceutical

7. Renewable Energy.

8. Education

9. HR Management

GitHub Projects

1. finos/perspective - Used in Real time Projects

2. goldmansachs/gs-quant - Used in Quantitative financial analysis for a client.

3. jpmorganchase/quorum - Used to Implement Etherium supported privacy.

4. sbnair/polkadot - Used to manage different blockchain networks using rust following Polkadot protocol.

Skills

Design Patterns used depending on Server and Serverless applications
▰▰▰▰▰▰▰▰▰▰▰▱
Domain Driven Design Patterns, Event Store, CQRS, Enterprise Patterns (CAP and CALM Theorems), Messaging Patterns, Distributed Systems, Integration Patterns, Event Driven Systems Architecture.

Financial Indicators : Breadth Indicators, Multi AMA, Dynamic Ind, Multi AMA - Quantile Osc, Vol Multi AMA - Quantile Osc
▰▰▰▰▰▰▰▰▰▰▰▱
Financial Indicators specified above been developed working with Investment Banks, Hedge Funds, etc.

C++,Python, OCaml, R, Wolfram

Senior Software Engineer 2006-11 - 2009-07

Islet Systems

Worked as Sole developer and also as a lead of small team to develop products specified below:
Domains Worked :
1. HealthCare (Medical Billing System,EMR)
2. Telecom (VOIP)
3. Ecommerce (Education)
4. IOS 3.1 and BB Bold 9780 Apps.

Technologies Used :
1 . C# 2.0,3.5,4.0
2. ASP.NET 3.0,4.0,jquery,javascript,ASP.NET MVC 2.0
3. DevExpress (Aspx and C# controls)
4. Asterisk server,Kamailio (OpenSer),pjsip,voxeo
5. Silverlight 3.0
6. C++(Managed and unmanaged)
7. Telerik Control Suite
8. Objective C,sqllite(mac and ios apps)
9. Sql Server 2005,2008,Oracle 9i,IIS 6.1,IIS 7

Consultant 2007-01 - 2008-11

Freelance

Domains Worked :
1. Electronic HealthCare Record System (Healthcare,Standalone)
2. EDI (HealthCare,Standalone)
3. Event App in iOS
4. Enterprise based Content Management System(CMS)

Technologies Used :
1. ASP.NET 3.5,WCSF,DotNetNuke
1. WPF,C# 2.0
2. Prism 2.0
3. Telerik Tools
4. MVVM,Nunit
5. Sql Server 2008,HL 7 v2.5

Programmer 2006-03 - 2006-10

CCS Technologies Pvt

Involved in developing frameworks,issue fixing and maintenance after deployment.
Domains Worked :
1. Accounting Package (ERP Product,standalone)
2. Electronic Satisfaction Survey (Web based)

Technologies Worked :
1. VB.NET 2.0, DevExpress Controls
2. Sql Server 2005
3. ASP.NET 2.0,Devexpress Controls,Javascript
4. Sql Server Reporting services

Programmer 2002-01 - 2005-12

7Cees Group

Involved in all phases of developing these products starting from Requirement gathering,development,testing,deployment and maintenance
Domains Worked :
1. Real Estate and Plantation (ERP)
2. Retail Stores (POS)

Mathematica, TradeStation,MultiChart, ARIMA Models, Correlation and Covariance,Statistical Models, IQFeed API, Apache Kafka, TD ammeritrade and IB Brokers, Zacks Research.

Worked in Developing Custom Indicators, Oscillators, Dynamic Bars based on Ranges.

Worked on developing Low Frequency and Medium Frequency Trading apps.

Node.Js, NestJs,TypeScript, DI, TypeORM, GraphQL, MongoDB, DataLoader,ReactJs, HighChart.Js,HighMap.Js

Developed the generation of Renewable Certificates for Norwegian firm.

C#, ASP.NET MVC 5, WPF, WinForm, F#, ReactJs, Vue.Js, Angular Js, Postgres DB, Oracle 10g

Worked with Microsoft Technologies to develop B2B products.

Java, MicroServices, SOA, Spring, Hibernate, Struts, Hadoop, Pig, Hive, Python, Kafka, Spark, CAP Theorem, Rust, Cryptography

Implemented Batch Processing and Real Time Processing models for integrating with different ERP Services and Other Pipelines.

3. Hospitals (Hospital Information System)
4. Ecommerce System

Technologies Worked :
1. C# 2.0,Infragestics,Sql Server
2. VB 3.0,6.0,Oracle
3. PB 9.0 ,MS Access
4. C++,C,Java,EJB,JMS,JTA,JSP,Servlets,Hibernate
5. Classic ASP,IIS 5.1
6. Sqlserver 2000,Oracle 6i,mysql 5.2

Education

BE, Computer Science   2000 - 2004
Institution Of Engineers (India), Calcutta

Pre Degree, Maths + Science   1997 - 1999
KG College Kottayam