

Samanway Ghatak

SOFTWARE ARCHITECT · SOFTWARE DEVELOPER

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Summary

Software Engineer with 10+ years experience in full stack development, software design, software maintenance and mentoring junior developers to write well-designed maintainable code. Interested in machine learning, genetic algorithms, and blockchain technologies. 3+ years of experience as Software Architect and team lead, specializing in requirement gathering, high-level and low-level designing, and monolith decomposition. A strong advocate of test-driven development, domain-driven development, and writing *reliable* automated tests.

Work Experience

Hyland

Kolkata, India

SOFTWARE ARCHITECT 3

August 2019 - Present

- Joined as Developer 3 (Senior Developer) in August 2019 and got promoted to Software Architect 3 (Team level Architect) in June 2021
- Primary responsibilities include requirement gathering and analysis, technical documentation, software design and planning, developing POCs and prototypes, guiding development team, review and develop test plans, threat modeling and risk analysis. **Technologies, Methodologies and Tools used: TDD, DDD, Microservices, Modular Monoliths, Design Patterns, .NET, C#, dotnetcore, GraphQL, REST, SOAP etc.**
- Started leading a new team of 7 from August 2024, modernizing **Acuo**, a Vender Neutral Archiving solution by Hyland from legacy (C++ .Net) codebase to dotnetcore
- Led a team of 5 developers and 3 test engineers** for 3 years (November 2021 to August 2024) ensuring efficient analysis and requirement gathering, developing POCs and MVPs, and timely delivery of subsequent enhancement projects and meeting SLA's while supporting the same.
- Analysis Server Modernization (Role: Architect and team lead):** Contributed to re-engineering one of the key backend services of the medical records management module of OnBase into a cloud-ready modular monolith. Technologies used: *dotnetcore, docker, aspnetcore, EFCore*
- Hyland Web Scanning (Role: Architect):** Led the team to this re-engineering and rewrite project of a legacy native scanning application into a web-based scanning solution that integrates with HxC (Hyland Experience Capture), a SAAS solution for document capture. Technologied used: *microservices, dotnetcore, dapper, docker, kubernetes, terraform, AWS, EKS, S3, SQS, github actions*
- Intelligent Medical Records (Role: Architect and team lead):** Led a team to analysis and Design of this solution used in importing documents while automatically extracting keywords from the document. Developed a microservice-based architecture using technologies such as: *dotnetcore, docker, kubernetes, AWS Comprehend, AWS Textract, S3, SQS, Lambda*
- Hyland Insurance Card Extraction (Role: Architect and primary developer):** Led a team to develop a pilot project in the intelligent application development for Hyland Healthcare. Primary objective of the project was to automatically extract data from health insurance card images. Developed a prototype for this solution that later got morphed into the *Intelligent Medical Record* project. Technologies used: *dotnetcore, azure, Azure Forms Recognizer (currently known as Azure Document Intelligence), Storage Containers, Functions, Cosmos DB*
- MRM Support (Role: Team lead and primary developer):** Been part of a team maintaining a legacy application suite improving the performance and long-standing issues in the applications.
- PKPhysicianValidator and PKBFF (Role: Architect and lead developer):** Designed and developed 2 backward compatible application to support PatientKeeper (A third party healthcare application for physicians) integration with OnBase.
- TaskList (Role: Lead developer):** Designed and developed a deficiency management application for medical records management and workflows.
- Worked on numerous 3rd party dependency vulnerabilities as developer to provide secure software. One of this included migrating a java web application developed with Axis 1.x to CXFs
- Developed a patch deployment feature of OneContent Suite of application that enables administrators from the customer sites to deploy quick fixes and patches without involvement of the services or development team.
- Worked on different innovation ideas as part of Hyland Labs initiatives and hackathons.

Factset Systems India

Hyderabad, India

SOFTWARE ENGINEER 2

July 2018 - August 2019

- Joined as Software Engineer in July 2018 and got promoted to Software Engineer 2 in April 2019.
- Technologies, Methodologies and Tools used: .NET, C#, C++, dotnetcore, Ext.Js, Python, WebAPIs, WPF, Github, TDD, SQL Server, MongoDB**
- Worked on an enterprise calculation engine for fixed income securities. Primarily worked on adding support for a new type of security (Bank Loans) analysis that was not supported by the engine earlier. Primary technology used was C++ along with occasional use of python.
- Enhanced and maintained a web based application used by the product development team. Delivered long desired feature by tweaking the underlying framework code.
- Developed a analysis tool that deals with a large data set and runs some statistical measures on the data. Used by internal product developers to analyze and calibrate the impact of re-engineering done by development teams.
- Maintained and enhanced internal tool highly used by the financial analysis teams for running security analysis daily.

Cognizant Technology Solutions

Hyderabad and Kolkata, India

PROGRAMMER ANALYST

June 2014 - August 2016

- **Technologies, Methodologies and Tools used:** .NET, C#, ASP.Net MVC, Redis, jQuery, Dapper, Enterprise Library, SQL Server, Azure IaaS
- Worked on re-engineering of a leading assessment platform for Cambridge Assessment - one of the largest assessment agencies to increase the supported load from 100 concurrent users to 4000 concurrent users.

Technical Expertise

PROGRAMMING LANGUAGES

- C# (Primary), Python, Javascript, Java, C++

DATABASES

- MS SQL Server (Primary), Firebase, MongoDB (Fundamentals)

WEB FRAMEWORKS

- ASP.Net Core, ASP.NET MVC, ASP.NET WebAPIs, ASP.NET (WebForms), GraphQL, React (Fundamentals)

OTHER TECHNOLOGIES

- **Cloud:** Azure (Fundamentals), AWS (Fundamentals)
- **Containerization:** Docker, Kubernetes
- **CI/CD:** Git, Github Actions, Terraform

Education

National Institute of Technology, Durgapur

Durgapur, West Bengal, India

M.TECH IN COMPUTER SCIENCE AND ENGINEERING

August 2016 - August 2018

- Gold medalist with GPA - 9.12

Jalpaiguri Government Engineering College

Jalpaiguri, West Bengal, India

B.TECH IN COMPUTER SCIENCE AND ENGINEERING

July 2010 - June 2014

- Secured GPA - 8.18

Howrah Vivekananda Institution

Howrah, West Bengal, India

HIGHER SECONDARY EDUCATION IN SCIENCE

2008 - 2010

- Secured 90.2% in Higher Secondary Examination conducted by West Bengal Council for Higher Secondary Education

Howrah Vivekananda Institution

Howrah, West Bengal, India

SECONDARY EDUCATION

1998 - 2008

- Secured 93% in Secondary Examination conducted by West Bengal Board of Secondary Education

Hobbies

GAMES AND SPORTS

- Playing Cricket, Table Tennis, Volleyball
- Follow other sports like Football, Tennis

MUSIC AND MOVIES

- Playing Drums and Guitar.
- Love listening to different genres of music.
- Like watching thrillers.