

## Vinayaka Amaresh

Senior Developer Enterprise Solutions

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<https://subarbanape.github.io/portfolio/>



### Fullstack Software Engineer with 14+ years of industry experience.

Work as a Senior Developer Enterprise Solutions at GVTC, Texas.

Previously, I worked as a Senior Solution Consultant for AgilePoint, for 6 years.

### Intro

Passionate Software Engineer doing my part to make Earth a better place. As Technology is evolving, we are breaking barriers everytime. With my love for Technology, I build products that will make positive impact on people lives and environment.

### Highlights

I build Software Applications from start to finish. Work with users and analysts to gather requirements, establish design of backend systems, implement key components for both frontend and backend, and work with my team to implement features by breaking into individual modules.

I recently authored the design and development of a responsive Employee Onboarding application for GVTC's HR onboarding needs. We used React JS for the portal, AgilePoint for forms and workflows, .Net Core and REST API for backend. Also implemented a bot that helps users to handle common tasks which uses Microsoft's ML.Net and Stanford's NLP engine.

### Skills

#### Development Platforms

AgilePoint BPM, SharePoint Online, Salesforce Admin

#### Programming Languages

C#, JavaScript, HTML, CSS, Motoko, JSON, XML, SQL, Python

#### Development Frameworks

React JS, Redux Tool Kit, JQuery, .Net Core, REST API, WCF Service, Rabbit MQ, Azure Devops, Git, IIS, Hosting, Machine Learning (ML.Net), Docker, Microsoft Azure, Microsoft Bot Framework

#### Development Tools

Mass Transit, Auto-Mapper, NLog, Bootstrap (UI Kit), Prime React (UI Kit), Styled Components (UI Kit), .Net Entity Core, Design Patterns

#### API Kits

AgilePoint BPM, DocuSign Integration API, Calix Cloud API, Ivanti HEAT Ticket Management API, Hubspot API, Typeform Integration API, Box API, Google Drive API, One Drive AP

## Notable Projects

Please check my Portfolio to get in-depth of these projects.

### Employee Onboarding

Design and development of end-to-end Employee Onboarding Business Processes and web portal. The suite encompasses New Hire Onboarding, Employee Transfer & Termination.

A customized portal was developed to provide highly personalized user experience.

A skillful bot was also developed to cater to users' questions. The bot is trained with the sample questions and answers on EOB related data and capable of processing natural language queries. Uses ML.Net and Stanford's NLP engine.

### DMCA (Digital Millenia Copyright Act) Evidence Engine

Engineered and developed DMCA Engine to extract network and billing evidence of copyright violations of retail internet users and deliver the evidence to billing system for notifying the customers.

Event-driven architecture was adopted to achieve seamlessness and efficiency by processing events asynchronously by using independent consumers who are destined to do their assigned responsibilities independently and deliver the results to corresponding systems.

### Business Case Approval Workflow

Design and development of Business Case Workflow using AgilePoint BPM and eForms.

Also built a stats engine which will keep a log of bottleneck tasks, user friendly task history, time taken for tasks' completion, and who is holding up the process currently. Please check out my portfolio to get more in-depth details on this project.

### Contract Bidding & Approval

Designed and developed AgilePoint based Contract Document Approval & Bidding process for one of the electric-utilities company. The application was responsible for enabling supply chain related staffs to initiate a new Contract Approval request. After the contract was approved based on the bidding amount, it will send emails to bidders, bidding happens through emails, eventually the DocuSign request is sent from the app to establish the agreement.

I used data population feature of AgilePoint to extract custom data and create reports. Also, used custom columns feature in the tasks module to display specific columns related to process to help users identify the processes.

Worked with development team in AgilePoint to create an advanced task list feature the out-of-the-box was not sufficient to provide all requirements customers were asking.

### Company-Wide IT Heartbeat Monitor

Implemented as an innovation project in parttime. We developed an interactive heartbeat monitor for GVTC IT Infrastructure.

The heartbeat will keep track of all the important IT infrastructure components such as IIS, Windows Services, CPU Usage, Server Disk Space and Memory, External Websites, SSL Cert Expirations etc.

It will notify designated admins whenever there some components go down.  
Every server that is monitored has a Heartbeat windows agent that will be running and reporting the status every few minutes. These agents send all the monitor info from its hosting server back to the Heartbeat server.

### Moxy Decentralized Storage

Developed frontend for blockchain based decentralized storage app Moxy using React JS on Internet Computer Blockchain.

This was for a bounty competition hosted by Dfinity. A non-for-profit blockchain company. We secured a second place.

### ICPxy NFT Explorer & Staking Platform

Designed and developed an 'NFT Staking Platform' application for my friend's project. We hosted it on Internet Computer Blockchain.

Built both Frontend and Backend. Backend was coded in Motoko programming language. Motoko is an open-source language built just for writing Canister contract on Internet Computer blockchain.

### Interactive NFT Art Generator

Built an NFT generator platform to automatically generate pixel characters based on the assets uploaded.

You just need to tell the quantity and mention the theme. It will generate them all in png format. There will be some oddities that you can filter through by Rejecting them and Approving which will be sent to a folder of your selection.

## Other Projects

Please check my Portfolio to get in-depth of these projects.

Bundle Product Promo Package Management Application

Customer Feedback Display Monitor

Tiny Workflow Engine

Product Management Integration Engine

Burn Poked Bot NFTs For 3D Poked Bot & Vampires NFT Team

Vibrance & Image Masking Filter For Corel-Paint

Data Converter Web Tool

Leave Request Workflow

Configuration App For Schlage Security Locks

Lock Simulator For Testing Lock Firmware

Code Review Quality Metrics Plugin For Winmerge Tool

## Employers

### GVTC Communications (Jan 2021)

Senior Developer Enterprise Solutions, Texas.

Design and Develop Enterprise Web Applications for GVTC. Collaborate with business analysts and other developers for design and development. Use tools like REST Services, .Net Core, AgilePoint, HTML, CSS, React JS, JavaScript, and more for the development. Lead offshore development teams and strive for the adoption of modern technologies. Implement DevOps using Git and Microsoft Azure DevOps. Designed integration modules for transitioning legacy applications to a new telecom platform. Conduct user workshops and provided ongoing technical support.

### Y&L Consulting – GVTC (Nov 2019 to Dec 2020)

Senior Software Engineer, Texas.

Led the design, development, and maintenance of software solutions at GVTC, automating deployment through Azure DevOps. Provided integration services, utilizing RabbitMQ and .Net Core, between ticketing, inventory, and device marketing systems. Maintained legacy software for GVTC core products, assisted the wholesale team with Salesforce configurations, and led routine offshore development and maintenance activities. Continuously explored new technologies for enhancing organizational value through partial or complete system migrations.

### AgilePoint (Oct 2013 to Nov 2019)

Solution Consultant, Senior Solution Consultant, California

Led roles involving customer collaboration to build business processes, offering mentorship and guidance by providing best practices and working samples. Received and analyzed customer requirements, converting them into workflow-driven applications using AgilePoint BPM. Developed and demonstrated prototype software, concurrently leading multiple projects with an offshore consultants' team.

Assisted in adding new features to AgilePoint BPM products, supported sales and support teams, and wrote service layers for integration with platforms like Salesforce and SharePoint. Additionally, developed and maintained internal employee applications, including Leave Request, Timesheet, and Travel Request.

### AgilePoint India (Feb 2012 to Oct 2013)

Senior Software Engineer, Bangalore, India

Traveled to onsite locations for requirement gathering, deployments, and provided technical support for ticket resolution. Assisted in the installation of BPM software, coordinated project development between onsite and offsite teams, led development teams, conducting code reviews, providing training, and participating in job interviews.

Significantly contributed to bug fixes, feature enhancements, and integration of functionalities, testing, and maintaining connectors with 3rd party systems. Collaborated with Engineering and Customer Support for defect troubleshooting, tested and maintained existing software programs, and contributed to discussions, documentation, and performance testing. Additionally, played a key role in core product development for various AgilePoint BPM Workflow components.

#### [Ingersoll Rand India](#) (Nov 2010 to Feb 2012)

Senior Software Engineer, Bangalore, India

Led the long-term development of handheld device Lock Configuration Software for Electronic Locks using MFC VC++. Developed pilot phase PC Software for offline configuration, traveling to the US for project demo. Designed and developed an end-to-end lock simulator utility using .Net and C++ for firmware testing, employing C++ interoperability for communication with legacy software modules. Provided mentorship, coordinated with QA, conducted product releases, and led weekly team meetings along with housekeeping responsibilities.

#### [Vyshnavi Information Technologies](#) (Aug 2009 to Nov 2010)

Senior Software Engineer, Bangalore, India

Played a key role in developing and bug-fixing bitmap and vector file filters for Corel Graphics software. Analyzed requirements, participated in status calls, implemented features, and conducted unit testing. Successfully contributed to the enhancements of new tasks, including reverse engineering color algorithms, and conducted root cause analysis for complex product issues. Worked on short-term projects such as Imation Photos Utility, Code Review Tool, and Webmail Client.

#### [Vyshnavi Information Technologies](#) (Jan 2009 to Jul 2009)

Software Engineer, Bangalore, India

Worked for senior software engineers by performing bug fixes, preparing requirements documents, and reverse engineering vector and bitmap file formats such as PDF, PSD, AI, etc.

### [Education & Credentials](#)

Bachelors in Computer Science, 2008,

Sri Revanasiddeshwara Institute Of Technology, VTU university – Bangalore, India

Salesforce.com Certified Administrator

## Github Samples & Articles

### Github

[My Portfolio](#), [Expression Engine](#), [Tiny Workflow Engine](#), [IC NFT Backup Tool](#), [Some AgilePoint Tricks](#), [Restaurant Automation Backend Design: Hobby Project](#), [NFT Generator Backend](#), [NFT Generator Frontend](#), [NFT Staking Decentralized App \(Dapp\)](#), [Redis Sentinel Docker Bridge Network Demo](#), [Distributed Test App On Lan Demo](#), [SSIS Package Tool](#)

### Articles

[Demo of distributed apps using Docker Stack](#), [Azure Devops Configuration](#), [SSIS Package Tool](#)

## Strengths

Consistent, Hard-Working, Empathetic, Strong Software Architecture Design, Team Spirit, Passionate, Artistic, Minimalistic, Simple & Effective Approach, Build Sustainable Software Applications, Work With Team To Promote Ideas Generation, Brainstorm Ideas, Take New Initiatives, Good Listener, Collaborate On, Top Of Others' Ideas & Work Together, Good Verbal & Written Communication Skills, Mentor Juniors & Share Knowledge

## Interests

Blockchain Enthusiast, Build Trustless Decentralized Apps, Pixelart Admirer & Hobby Artist, Retro Art & Retro Futurism, RPG Game & Wannabe Game Developer, Wannabe Kuksa Wood Crafter, Waiting For UFO Encounter :-), Software Design Using OOP

## Summary

Please reach me out if you have any questions. Thank you 😊