

MANIKANDAN GANESAN

Principal Engineer with 7+ years of experience and a proven track record of designing and developing highly scalable web apps from the ground up.

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Chennai, Tamil Nadu, India

SUMMARY

7+ years of experience in developing highly scalable web application products.

6+ years of experience in developing the business logic applications with PHP and NodeJS.

6+ years of experience in designing and developing the AWS cloud architecture and infrastructure design and maintenance.

2+ years of Full-stack experience in designing and developing UI components with HTML, CSS, Vue, Vuex, Material Design
Passion for unpacking and solving complex systems problems that span across multiple contexts.

Experience leading a team of 5 engineers also guide and mentor junior software engineers.

Strong troubleshooting and problem solving ability.

Good exposure to emergency handling of customer issues.
Good communication skills.

Worked closely with sales team. Get inputs from customers and implement various features in the application.

EDUCATION

Bachelor of Engineering.

[Annamalai University](#)

04/2007 - 03/2011

GPA

7.7 / 10

Higher Secondary

[P.A.Vidhya Bhavan](#)

03/2005 - 04/2007

GPA

81 / 100

SKILLS

Frontend Tech

HTML CSS VUE VUEX

Material Design

Backend Tech

NodeJS PHP Express NESTJS

SQL Server MongoDB PostgreSQL

REDIS ELK Stack Docker

Microservices NGINX Apache

GraphQL JEST

Cloud Platform

AWS

OS Platform

Linux Windows

Dev Tools

NetBeans VSCode GIT

EXPERIENCE

Principal Engineer

SysCloud

📅 08/2018 - Ongoing 📍 Chennai

SysCloud, US based company. Our software protects businesses and educational institutions from data loss and cyber threats like Ransomware and Phishing, while using office collaboration suites like Google G Suite and Microsoft Office 365.

- Work on strategic initiatives on technology selection, develop prototypes, research and development and process improvement.
- Lead backend developer for the technical team and successfully delivered many new features for the product.
- Ransomware and Phishing detection feature designed & implemented by me was a highly successful and was the most widely used feature by our customers.
- Implemented Redis Cache clusters in our applications, which helps us to reduce the DB performance issues, provides best user experience.
- Developed infrastructure to standardize logfile collection and analysis across product.
- Involved in several API migrations. and converting the monolithic application modules into microservice
- Get involved in code reviews. Ensure following best practices and validate coding algorithms to improve efficiency.
- Responsible for handling and responding to customer tickets. Work with Sales team, talk to customers and do iterative development.

Lead Engineer

SysCloud

📅 08/2017 - 08/2018 📍 Chennai

- **Security, DLP and compliance** is a highly-scalable, modern cloud analysis tool that provides visibility into your accounts, insider and outsider threats in real-time. It is being used 5M users. Especially in K12 sector. I developed this product from ground-up.
- As a lead backend developer for the product development team, I was responsible for designing and developing highly reusable Components for the product.
- Migration of application from legacy server deployments into modern techniques with one-click deployment by creating Docker builds, GIT and CI/CD tools and pipelines.
- Responsible for implementing various automation workflows for AWS deployments and infrastructure cost reduction.

Senior Software Engineer

SysCloud

📅 08/2015 - 08/2017 📍 Chennai

- Security, DLP and compliance application, Will prevents your account from Data loss, by identifying insider threats. It allows Admin to create various policies (PCI, HIPAA, FERPA, IEP, Confidential Data) to monitor across the domain users accounts.
- It also provides students safety policies like Objectionable content, CIPA, Cyberbullying and Life Threats.
- Implemented Machine learning algorithms to increase the accuracy of these policy results produced by application. which reduce the false positives alarms and increase the true positives.
- Achieved auto scaling with every part of the application.

PERSONAL PROJECTS

Pet Application

📅 2020 - Ongoing

Shopping Cart application built with VueJS as Frontend and ExpressJs as Backend. Using AWS as deployment platform.

- An online store to purchase the necessities for pets.

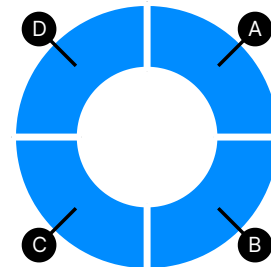
Schooling Application

📅 2018 📍 Chennai

School management Software

- Built an REST API service with Express JS.
- It stores and manipulates students and teachers metadata information and provide response to UI.

MY TIME



- A Designing & Writing Code
- B Designing Workflows
- C Deployment & Scaling Plans
- D Mentoring / Code Review

EXPERIENCE

Software Engineer

SysCloud

📅 06/2013 - 08/2015 📍 Chennai

- Started the design and development of "Security DLP and compliance" application from scratch.
- Implementation of PHP business logic code. It will work with GSuite and O365 REST API's, download data, scan user created policies and alerting to Admin in case of violations.
- Implementation of webhooks to listen the changes done by the users, catch it and do scan in real time.
- Involved in AWS EC2 server migrations from Windows environment to Linux.
- Designing the database tables and queries with seniors and responsible to implement SQL procedures and do enhancements in it.
- Responsible for resolving customer issues.