

MANIKANDAN S

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Seeking assignments as Software Engineer in growth-oriented organization

Snapshot

- **A bright, talented, ambitious and self-motivated engineer** with 3+ years of experience and a strong technical background who possesses self-discipline and the ability to work with the minimum of supervision.
- Presently associated with **Gametop**, a global leader in distributing highly engaged casual games to an audience of over 5 million monthly active users as **Senior Software Engineer**.
- Working as a Senior Software Engineer to **design and develop the entire software platform of the company**. As a startup, with a team of 3 members we are able to engage over 5 million monthly active users with my responsibility of **owning the entire software of the company**.
- Previously associated with **Global Analytics** (www.lendingstream.co.uk), a **leading Fintech Product Company in United Kingdom as Senior Software Engineer I**, was responsible for the design and development of the **entire product of the company from scratch** with new architecture.
- Also previously associated with **Inautix Technologies Pvt. Ltd (Bank Of New York Mellon)** as **Application developer**.
- Graduated from **ANNA UNIVERSITY (MIT CAMPUS)** with a **CGPA** of **8.76** out of 10(FIRST CLASS WITH DISTINCTION)

Skills

Languages	Python, Java, C, C++, Javascript
Frameworks	Django, Flask, Twitter Bootstrap
Cloud Infrastructure	Google Cloud - App Engine, Compute Engine, Cloud Storage, DataStore, BigQuery, Cloud CDN, AWS
Platforms	Linux, Windows , Unix
Libraries/APIs	JSON REST API, Rabbit MQ, jQuery, Facebook API
Tools	Git, Docker, VirtualBox, Virtualenv, PyCharm, Eclipse, Sublime
Paradigms	Object-Oriented-Programming (OOP), Test-driven Development (TDD), Scrum, Agile Software Development, Continuous Integration, Event-driven Programming
Storage	MySQL, PostgreSQL, Memcache, DataStore (NoSql)
Misc	Nginx, Apache
Analytics Platform	Google Analytics, Piwik
Visualization Tools	Tableau

Work Experience

Gametop

Senior Software Engineer (Jan 2017 - Present)

Key Highlights:

- Core responsibility of **owning the entire Software platform of the company** working closely with **CEO to design and develop the platform.**
- Developing **highly scalable applications** to serve over **5 million active monthly users** , approximately **more than 1 million requests per day** with Google Cloud infrastructure.
- **Optimized the entire website** both backend and frontend within a short period of time and **reduced the server costs by 75%**
- Implemented various new features and recommendations based on user preferences.
- Also taking additional responsibilities of analysing data using **Google Analytics, Data Studio, BigQuery, Tableau** and providing various insights to the CEO to improve and develop the business.

Global Analytics (www.lendingstream.co.uk)

Senior Software Engineer I (March 2015 - Jan 2017)

- **Part of core team of the company, developed the entire product from scratch with completely new architecture and innovative ideas.**
- As part of new initiative to design and develop the product from scratch , **interacted closely with business and product team** to gather the detailed requirement and prepare the Function design of the product with a high level architecture.
- Worked closely with the **Architects** and other team leaders to create a detailed technical design document with clear picture of point of interaction of components, their behavior, the way they communicate and the test cases.
- Developed **Restful Web service** of entire **customer account and profile management. Backed for Entire customer account section.** Worked on various **Rule sets** to customize and **dynamically produce various contents to customers** based on their details, states and their previous history.
- **Implemented core of our product - communication engine** - by which all emails, post, sms will be delivered to customers. **Integrated with Salesforce for email and sms triggers.**
- Achieve maximum code coverage using static code coverage analysis tools and ensuring coding standards using static language specific linter tools.
- **Rated as best and active developer of a new core software team of the company.**

Inautix Technologies (Bank Of New York Mellon)

Application Developer (June 2013 –March 2015)

Key Highlights:

- Part of Account Services team of NetX360 project, **Rated as a best developer in Team , I was allocated to Barclays Project**
- Understanding the new Business requirement criteria proposed and implemented a **new business logic** on the login page of NetX360 product.
- Implemented **whole new full working module** for **Barclays Bank** using struts framework.
- Created a **new framework and application** for automated testing of our entire application using Selenium
- Implemented various solutions to prevent exceptions occurring during account creation and account inquiry for Code Cleanup Project.
- Developed business logic activities with JSP, Java Beans and Servlets.

Barclays Association with Bank Of New York Mellon – Netx360 Application

- Rated as an active developer in our team, I was allocated to Barclays Project (a big project after CITIbank association with BNY Mellon)
- Analyzed the whole requirement and proposed various designs and ideas for implementing the requirements into our existing application.
- Constructed Field-control and Field level Routing (two huge sections in our application) and proposed and implemented dynamic approach for the existing and new section's.
- Constructed new classes and methods to implement an API from another (Imaging) team into our application instead of going into dabble configuration.

New Framework And Application for Automated Testing using Selenium

- Proposed an innovative **idea for automated testing** of our entire application using **Selenium**.
- Rated as **best innovative idea** , proposed new logics to test our entire application (consisting of 4 huge modules) before **our code gets tested by Quality Analyst team**.
- **Implemented** the proposed approach with **Selenium webdriver**, Jsoup & HTML Parser, Jxl and Tomcat and deployed in cloud.

Academic Record

2013

B.E(ECE) from Anna University. CGPA: 8.76 out of 10

Semester	I	II	III	IV	V	VI	VII	VIII
CGPA / 10	8.89	8.89	8.88	8.58	8.76	8.5	8.54	9

2009 **H.S.C** from SHRI Krishnaswamy, TN State Board , Chennai. Scored **94.6%**
2007 **S.S.C** from M.A Krishnaswamy, , Matriculation, Chennai. Scored **95.8%**

Projects Handled

University Project:

Detection of Retinal Structures using Artificial Bee Colony based Clustering method using Digital Image Processing

Responsibilities:

- Designed a unique method for detecting retinal structures such as optic disc, exudates using Artificial Bee Colony based Clustering algorithm.
- The proposed method exactly detects exudates in abnormal images around 200 images, which I implemented using MATLAB
- From the output obtained the diseased conditions are analyzed using performance measures and similarity index to detect the exact stage of disease

A Hybrid Method for Localization and Segmentation of Optic Disc in Retinal Images for Glaucoma Analysis Using Digital Image Processing:

Responsibilities:

- Designed a hybrid method for localization and segmentation of optic disc for retinal disease analysis using digital image processing techniques.
- Proposed an algorithm combining 3 different methods for localization of optic disc which I implemented using MATLAB and got exact localization of optic disc.
- Segmentation was done based on Otsu thresholding algorithm and fuzzy c-means in MATLAB for glaucoma analysis.

Academic Mini Project:

Detection of Human Movement for Automatic ON/OFF of Power Supply using Image Processing:

Responsibilities:

- Analyzed the various energy crises in universities, schools and proposed a method for

automatic on/off of power supply using digital image processing techniques, using MATLAB.

- Human presence is detected from image captured through web camera, using circular Houghtransform and morphological methods in MATLAB.
- The proposed method is then implemented using a microcontroller for automatic turn on/off of power supply.

Sixth Sense Robot

Responsibilities:

- Designed a robot using Atmel microcontroller ATmega16 with a web camera mounted which is having video stream in a running mode where actually it sees the ball and where ever the ball is moving it just follows it automatically without any external control.
- I used MATLAB for tracking the direction of ball and ATmega16 is used to control the robot in the direction of movement of ball.

Personal Projects

- My Resume website published in Google cloud - <http://www.smanikandan.com>
- Uber Cab booking Rest API's - Designed and implemented simple cab booking service based on Django REST framework
- A simple Django website - for customers to sign up, login and upload documents to their profile.
- Django web accounting application - Admin to keep track of companies, projects allocated to them and sprints. With Reports section to download various reports
- Address book web application designed using django.
- A simple app to retrieve github users data with their username.
<http://github-user-data.herokuapp.com/app/profile/>

Awards and Achievements

- Awarded with Truly Phenomenal Performance Award in Global Analytics.
- Best developer of software team in inautix technologies and a award for new innovative idea.
- Top 10 contenders of Android Hackathon.
- Member of National Sports Organization (NSO) from June 2009-May 2010
- Organized various event during Electrofocus'12, the department symposium of Electronics department of our college.
- Winner of programming hackathon organised by our college technical symposium.