

MOHANA MANIKANDAN

10/15, 1st Street, Lakshmi Nagar, Tiruppur, Tamil Nadu, 641602



C++/Python developer with more than an year of experience in Angiography Visualization System (Image Guided Therapy) and more than 3 years of experience in GPRS module of Online Charging Systems (Telecommunications). Looking to leverage my knowledge and experience into a role as a Software engineer.

PROFESSIONAL EXPERIENCE

- Strong knowledge in **memory layout** and **machine representation of C/C++** applications.
- In-depth understanding of **compilation and linking** (static/dynamic) units, **Symbol resolutions**, **Cache memories**, Exceptional control flows and virtual memories of C++.
- Experience in developing **multi threaded applications** and the respective data hazards and concurrency issues.
- Skilled in developing **python modules** for test automation and log analysis.
- Proficient in performing **post-mortem analysis** of an application dump file, deadlock analysis.
- Worked with **in-memory databases** and **ORM**.
- Worked in **Windows**, **Linux** and **SunOS** platform.
- Familiarity with **DICOM** in Healthcare domain.
- Worked with **Component Object Model**.
- Experience in analyzing and tuning the application's performance with **load testing**.

TECHNICAL SKILLSET

- Languages – C, C++, Python, Shell Script, C#(Basic)
- Operating Systems – Windows, SunOS, Redhat Linux
- Database – Oracle (PLSQL & Pro*C), SQLite, MySQL (Basic), MongoDB (Basic)
- Version Controlling – Git, TFSVC
- Deployment – Jfrog, Jenkins
- Project Management – Jira, Confluence, Bitbucket, Azure Devops
- Debugging Tools – GDB, PDB, WinDBG
- Unit Testing Framework: CppUnit, Google Tests
- Basic Knowledge of HTML, CSS, JS, Django, WPF

PROJECT PROFILE

SIEMENS HEALTHINEERS

Software Developer

Bangalore, IN

August 2019 – Present

With its Advanced Therapies segment, Siemens Healthineers is a global provider of highly integrated products as well as of solutions and services used by healthcare providers for therapy

in various Clinical areas. Siemens Healthineers also provides solutions for all modalities in Medical domain.

- Working on **Image Acquisition and Visualization** system in Angiography for Image Guided Therapy.
- Working on module that handles Configuration Parameters for X-Ray as an individual contributor involving **requirement gathering, design and implementation of features**.
- Performed numerous **post mortem analysis, deadlock analysis** from the field and test centers.
- Monetary Recognition award for developing a **python** based log analysis application that performs **pre-analysis on application logs**. This greatly reduced the efforts spent by the project members for analyzing customer complaints from the field.

PLINTRON MOBILITY SOLUTIONS

Chennai, IN

Software Developer

June 2016 – August 2019

Plintron Mobility Solutions is a Cloud Communications-As-A-Service provider, offering Cloud Communications Solutions to Consumer Businesses, Devices Businesses and Enterprise Telephony Businesses globally.

- Worked on multiple research models that is focussed on **fault handling and recovery of GPRS application** during traffic surges.
- Handled **platform migration to Linux**.
- Worked on improving database service time by offsetting logics to application code.
- Worked on improving the policy / counter management of GPRS module using DAGs and global counters which aims to reduce the traffic between OCS and DNG/PCRF module.
- Fulfilled **application's compliance towards country regulations** such as the EU's Roaming Regulation of 2017.
- Developed tools for profiling and **visualizing the application's performance** using Django.

EXTERNAL CERTIFICATIONS

- Took the "[4G Network Essentials](#)", offered by IMTx, an online learning initiative of the Institut Mines Telecom, through edX (Honor Code).

EDUCATION

SRI VENKATESWARA COLLEGE OF ENGINEERING

Chennai, IN

Bachelor of Engineering in Electrical and Electronics Engineering, April 2016

CGPA of 8.0 out of 10

AVP TRUST NATIONAL MATRIC HR SEC SCHOOL

Tiruppur, IN

Class 12, Higher Secondary Education, March 2012

Percentage of 97 out of 100

SRI SAI MATRICULATION HR SEC SCHOOL

Tiruppur, IN

Class 10, SSLC, March 2010

Percentage of 92.4 out of 100