

**Maresh Attarde** Coder.maresh@gmail.com +91-8790520855 | [Github](#) [Dev.to](#)

### **Summary**

*Self-motivated, adaptable, independent individual in software industry with proven records for solving complex problems and delivering results, capable of working with limited supervision, proactive in managing tasks and status*

*Quality Experience in building tools, flows, sdk in domains databases, compiler, cloud data center*

### **Professional Experience**

#### **ML-HLS-FPGA Consultant | Remote | Jan 2022-Present**

- Built CNN, DNN and K-means **accelerator** with FPGA with **ML Compiler**
- **Accelerated delivery by 2 months** with solution requiring understanding of architecture, design and programming lang of customer requirement and reduction of human efforts
- Exercised **Product Development best practices** to reach automobile customer approval

#### **AMD-Xilinx | Senior Software Engineer | Dec 2016 – Nov 2022**

- Built HLS LLVM **developer tools**, **SDK framework** and demo **applications** in Vitis
- Architected asynchronous event framework for fastest possible execution of workload
- Achieved speedup of more than 100% to team deliverables
- Achieved 92% of test suite bring up including unit test and apps for Patented Compiler
- Led Object Oriented model for Requirement Specification, designed & developed tool chain with end-to-end responsibilities in C++ and Python
- Sound Understanding of **software development life cycles** including Agile and Spiral
- Expertise in **architectural patterns** like multithreading, IPC, web services and **design patterns** from C++ Boost-STL, **automation** with python along with gdb debugging
- Good experience in managing tasks over local remote teams to deliver value

#### **Progress Software | Software Engineer | March 2016 – Nov 2016**

- Built SQL **Engine** feature, dynamic sample statistics based on lex-yacc, C/C++
- Worked on Legacy source built over 15 years, bug fixing and debugging for CDC
- Contributed to Hack-a-thon for multithreaded query plan, less to 2 times speedup

#### **Blaize (Thinci) | Software Engineer | June 2014 - Feb 2016**

- Built tools, OpenCL- OpenVx **SDK** framework for Computer vision HPC GPU hardware startup
- Lead frontend library support end-to-end using C++ in pipelined architecture
- Designed test-suites from scratch for all frontend library mock ups
- Delivered value to customer in deadline with pair programming which led to 100 times fast low cost DNN models for customer

#### **Project Co-ordinator | May 2018**

- SQL-Data frame accelerator with **LLVM JIT** in columnar database Implementation
- Achieved 6 times speedup on execution and ~ 2 time less data movement of data

### **Education**

- **Executive Alumnus**, IIM Indore (2023)
  - **Certified Agile** methodologist from Google.
  - **System Major**, MTech in Computer Science and Engineering, **IIIT Hyderabad**. (2014)
  - **Distinction**, Bachelor of Engineering in Computer Engineering, **Pune University**. (2011)
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