Naveen Gara

Email : naveen.gara@gmail.com
Mobile : 848-628-4207

Education

- **Sri Jayachamarajendra College of Engineering** — Mysore, India
  Bachelor of Engineering in Electronics and Communications — *Aug. 2002 – July. 2006*

Programming Skills

- **Languages**: C++, Python, BrightScript, C, bash
- **Platforms**: Linux(Windriver, Ubuntu), Unix(HP-UX, AIX, Solaris)
- **Tools**: CMake, GNUMake, gdb
- **Testing Frameworks**: Squish, GoogleTest, Cucumber
- **Protocols**: CAN (Vehicle bus standard), FIX(Financial Information eXchange)
- **Methodologies**: Agile, Test Driven Development (TDD),

Experience

- **Roku** — Austin, TX
  Senior Software Engineer — *Feb 2021 - Present*
  - **Firmware Developer**: Develop RokuOS that all the TVs/StreamingPlayers/SoundBars run on.
  - **SmartHome CameraApp**: Develop CameraApp that lets users watch the cameras on the big screen (TV).

  Environment/Tools: C++, Python, BrightScript, bash, Multithreading, git, gperf

- **John Deere** — Des Moines, IA
  Senior Software Engineer — *June 2012 - Jan 2021*
  - **Gen4 CommandCenter Displays**: Develop software for displays of the family of Autotrack guidance agriculture machines (like tractors) which farmers use for Precision Agriculture.
  - **Defects Triaging**: Initial triaging/analyzing of defects that are logged by farm testers to be assigned to the right team. This needs a robust knowledge of the entire system and involves a lot of communication with various teams.
  - **Reprogramming Firmware**: Develop a Reprogramming module which deals with installation and updates of Gen4 CommandCenter™ Display.

  Environment/Tools: C++, Python, Qt/QtCreatorIDE, bash, Multithreading, Agile, mercurial, git, CAN-protocol, sqlite-db, TestDrivenDevelopment(TDD), gtest, Squish(UI-Testing), Cucumber, gperf, VTune, valgrind, yum(package manager)

- **Bloomberg** — Manhattan, NY
  Software Engineer — *Apr 2011 - May 2012*
  - **STEP (Add-on software for OrderManagementSystem)**: Develop STEP Software which integrates with the various OMS products available in the market that helps traders to automate sending IOIs (Indication of interest) and ADVs(Advertisement) without human intervention.
  - **A tool to test STEP**: Developed a test tool that will inject Orders that otherwise would have been sent by the associated OMS. This tool would generate all possible fix messages(like NewOrder/ FilledOrder/ PartialFill/ Cancel/ Replace) which were extensively used to test the main product (STEP) which we were developing.

  Environment/Tools: C++, JavaScript, Unix(AIX, HP-UX, Solaris), RAPID(UI development framework), SQL, ComDB, STL, FIX-protocol, Service orientied architecture, XML, Multithreading (IPC), OOP, svn.

- **Toshiba** — Bangalore, India
  Software Developer — *Aug 2006 - Feb 2011*
  - **Printer Firmware**: Develop firmware for Toshiba's vast range of Multi-Functional Peripherals(MFPs) in C++ and WindriverLinux.
  - **Integration and Onsite Coordination**: Integration of all three layers at the client location (Toshiba, Japan) by coordinating with all the teams with onsite coordination between client and the offshore team.

  Environment/Tools: C++, Linux IPCs, Multithreading, Windriver Linux, PowerPC, bash scripting, PVCS(version control), sqlite-db, awk, sed, valgrind