

# Mandar Joshi - Linux Developer

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## Profile:

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Creative software engineer with a passion for developing on the Linux platform. Bringing forth a motivated attitude and a variety of powerful skills. Committed to utilizing my skills to further the mission of a company. Proven ability to establish and maintain excellent communication and relationships with clients. Dedicated to identifying customer needs and delivering effective solutions to all problems.



## Work Experience:

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### **Network Engineer** at *Excel Systems & Services*

2006 – 2007

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- Managed and maintained network firewalls, routers, hardware and switches for Stock Brokers to ensure maximum performance and reliability
- Managed Fortinet firewalls, Cisco Routers and Maintained computer networks and hardware for Stock Traders in South Mumbai.

### **Software Engineer** at *Software Workshop .NET*

2007 - 2009

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- Developed software in multiple programming languages, such as C, C++, PHP, .NET
- Developed Loyalty Programme for a client in Bahrain. Implemented POS to Payment terminal (Castles Vega9300) communication (RS232) and smart card integration (Mifare).
- Developed Address Matching technique to find duplicate addresses in a large database of customers of major Petroleum companies.
- Integrated Peripheral devices with Gemalta X-Series and C-Series terminals by compiling up Linux Kernel Modules and Supporting libraries for the terminals.
- Developed Expat based XML Processing Utilities to speed up backend processing of large XML files eliminating large backlog of processing.
- Developed Document Management using GTK+ and C for Insurance industry on Asus Eee PC.

### **Embedded Linux Engineer** at *Teletronics India Pvt. Ltd./Infinet Financial Systems*

2011 - 2012

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- Developed Web Interface for configuration of Linux based Voice Trading terminals (Turrets) using Django and JQuery.
- Worked on development of Voice Trading system using Embedded Linux devices in Tokyo
- Worked on FreeSwitch based Voice Trading system on Embedded Linux terminals running Arch Linux.

- Developed Advertising Oriented Streaming Audio System with GStreamer with Android client application and server written in C/C++
- Designed and Setup OpenVPN for Stock Traders to allow Voice Trading Embedded Linux Terminals to work seamlessly during COVID 2020
- Remotely Fixed Touch Screens by researching and applying necessary Linux kernel patches remotely for Stock Trader in Singapore
- Developed Edge Analytics Architecture using Deepstream SDK on the Nvidia Jetson platform for a startup and wrote implementation of 3D Object Measurement in C/C++ using OpenCV. Integrated Yolo Object detection model with Deepstream.
- Developed Surveillance System using Off-The-Shelf Hardware. Integrated both local and Chinese hardware. Developed compact Surveillance system on Asus Tinkerboard.
- Developed custom Linux rootfs using Gentoo for custom build Linux devices and installed rootfs using U-boot prompt and JTAG keeping size of rootfs in mind
- Developed Glove detection with Color Analysis for Pharmaceutical manufacturing industry using DLib and OpenCV along with streaming using GStreamer.

**Education:**

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Bachelor of Engineering, Vivekanand Education Society's Institute of Technology - 2016

- Graduated with CGPA of 7.26 in Information Technology

**Miscellaneous:**

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- Google Summer of Code 2015 - CentOS 2015
  - Developed RootFS Build Factory To Generate RootFS Images for CentOS On ARM Platform using Cubietruck, Raspberry Pi and Odroid C1
- Intelligent Surveillance, Berlin, Germany 2016
  - Gave A Tech Talk and Presented Architecture for Using GStreamer for Security Applications
- Mars 2020 Helicopter Mission Contribution 2020
  - Earned Mars 2020 Helicopter Contributor Badge on GitHub (<https://www.github.com/mndar>) for Linux Kernel Code Contribution to the NASA Ingenuity Helicopter.