

# Madhava G.

## Summary

- ~14 years of Development experience
- Distributed Systems & Deep Learning

## Skill Highlights

- C, C++, Golang & Python.
- Microservices, Docker, Kubernetes.
- Low Level Performance Tuning & Optimization
- Linux, TensorFlow, CUDA, OpenCV.
- Async programming, Multi-Threading & coroutines.

## Contact

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## Education

- Bachelor of Engineering: **Information Technology** – 2006  
**Shivaji University**, India

## Experience

### Technical Leader - 06/2012 to Present

#### Cisco Systems, Web Security Team, Bangalore, India

- Architect for Cisco's Web Security Product.
- Contribute to Product Roadmap, quickly develop Proof Of Concepts & Prototypes.
- Represent organization in sales forums & research conferences, generate IP & create dollar opportunities.
- Developed multiple Deep Learning features for Web Proxy like Sentiment Analysis, Privacy Preserving traffic analysis, Image classification based AUP etc. using deep learning techniques like CNN, RNN, LSTM.
- Designed & Developed Key Data Structures, important algorithms, Distributed consensus & required protocols for Web Proxy.
- Designed & Developed Proxy state machine, Web Security Policy Engine, SSL/TLS MITM Proxy, HTTP/2, HTTP/3, QUIC, DNS protocols.

### Software Engineer: 07/2010 to 06/2012

#### Symantec Software, Email Security Team, Pune, India

- Developed Naïve Bayes filter based "Spam Wall", an anti-Spam filtering Engine.
- Developed zero day threat detection library, and IPv6 reputation generation algorithm.

### Software Engineer: 01/2010 to 07/2010

#### Persistent Systems, Pune, India; C++ developer.

- Developed Lawful Interception logging Service for Cloud Email Service.

### Software Engineer: 12/2006 to 01/2010

#### Tata Consultancy Services, Mumbai, India. C/C++ developer

- Developed AAA Engine for telecom cluster platform.
- Developed RBAC, daisy chain authentication for CDMA switch.

## Research Publications

- June 2020 Paper on Predicting Critical Temperature of a Superconductor. Indian Journal of Physics
- Jan 2020 Paper on Privacy Defined Security. 6th Cisco Internal Data Science Summit Prague, CZ
- Jan 2019 Paper on Emotion AI for Emails. 5th Cisco Internal Data Science Summit Prague, CZ
- Nov 2018 Poster on Deep Reinforcement Learning based Load Balancing. 18th ACM Internet Measurement Conference (ACM IMC) Boston, MA, USA
- Jan 2020 'Web Security Appliance' Research & Development Demonstration Cisco Live! EMEA 2020 Conference Barcelona, Spain