

Madhava G.

Skills Highlights

- Low Level Performance Tuning & Optimization on Linux & FreeBSD
- TCP/IP, TLS, HTTP, DNS, DHCP, SSH, SMTP, RADIUS, DIAMETER, FCAPS, QoS, URLLC
- Random Forest, XGBoost.
- Reinforcement Learning, Bayesian Filtering, Kalman Filter
- Docker, Kubernetes
- Deep Learning: TensorFlow, Keras, CNN, RNN, GAN, LSTM
- Other Languages: Golang, Core Java, scala

Contact

- **Address:**
M2070, Divyasree Republic Of Whitefield, EPIP Zone, Whitefield, Bangalore, India 560066
- **GitHub:**
<https://github.com/krimler/>
- **Phone:**
+91 9535876811
- **Email:**
madhavag@yandex.com

Education

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

Skill Summary

13.6 years of Systems Programming experience in C, C++, Python
➤ Identity, Network Security, Machine Learning.

Work Experience

Technical Leader - 06/2012 to Present

Cisco Systems, Web Security, Bangalore, India

- Contribute to Product Roadmap, quickly develop Proof Of Concepts & Prototypes, customer issues & requirements
- Designed & Developed Key Data Structures, distributed caches, important algorithms & required protocols for Web Proxy.
- Designed & Developed Proxy state machine, Web Security Policy Engine, SSL/TLS MITM Proxy.
- Invented, & researched for multiple Machine Learning features for content security like Sentiment Analysis, Privacy Preserving Content Filtering, traffic context based AUP. Presented in internal research conferences.
- Very large scale data validation, unit testing of data, data generation, feature engineering, data augmentation.
- Developed Identity based firewall (ISE) distributed system
- As part of BNG Team, developed 4G & 5G aware prepaid BNG subscriber session management, cloud BNG, 5G network slicing.

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.
- Designed & developed IPv6 reputation generation & clustering algorithm.

Research Publications

- Mar 2020 Talk on Privacy Defined Security at Harvard University, MA USA for NESD (Postponed due to COVID-19).
- 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 Selected Poster on Deep Reinforcement Learning based Load Balancing. 18th ACM Internet Measurement Conference (ACM IMC) Boston, MA, USA

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 4G(LTE & WiMax) NE.
- Developed RBAC, daisy chain authentication for 4G NE.