

MADHAVA G.

13+ Years Experience in Building AI and Distributed Systems Algorithms.

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WORK EXPERIENCE

Technical Leader

Cisco Systems 06/2012 - Ongoing Bangalore, India

Developer for Cisco Ironport Web Security Product.

- Designed & coded scalable & distributed product architecture.
- Developed in-memory multi-threaded data structure. Coded HT, SET & HyperLogLog. Developed v1.0 clustering & replication support.
- Developed several network security product features e.g. SSL/TLS MITM Proxy, HTTP2.0 Proxy, secure ICAP Protocol, fixed several HTTP vulnerabilities, integrated snort & ISE like internal products with web gateway to enhance overall threat protection.
- Designed & developed distributed user traffic authentication system.
- Built new development teams from scratch and made tightly scheduled delivery on time.
- Worked in agile model, helps to create and evolve user stories, provide design and technical judgement to team and removing technical obstacles.
- Coded session management for Broadband Network Gateway. Developed multiple series of features like Prepaid Broadband session & services based on RADIUS & DIAMETER, session accounting & service accounting, software rate limiter for RADIUS CoA, Mobile IPV6 etc.

Software Engineer

Symantec 07/2010 - 06/2012 Pune, India

Development of Symantec Brightmail Gateway

- Developed and maintained anti-spam library. It was a successful Bayesian filter in production. Maintained anti spam Scanner Engine. Enhanced it to work in HA mode. Developed allocation library for handling rule updates.
- Developed IPV6 addresses clustering technique for security reputation & recommendation. Wrote efficacy measurement framework using C++ & XML for anti-spam engine.

Senior Software Engineer

Persistent Systems 2010 - 07/2010 Pune, India

Worked on development of Openwave Email cloud service using C++.

- Developed software based QoS and distributed logging service for product.
- Developed configurable user password auto generator used as default password while end-user account creation.

Software Developer

Tata Consultancy Services 12/2006 - 01/2010 Bombay, India

Worked on Development of ATCA Platform using C, & C++.

- Developed & lead various authentication(AAA) features like daisy chain authentication, RBAC, SSO for distributed cluster of Network Elements.
- Implemented Algorithm and state machine for software License consumption for CDMA user sessions.

SKILLS

C C++ Golang Python

TCP/IP Distributed systems Security

Concurrency Microservices Linux

Machine Learning Identity SAML

PUBLICATIONS

Emotion AI for Emails.

Presented Paper in Cisco 6th Internal Data Science summit, Prague, Czech Republic.

Madhava G.

01/2019 URL

Applies NLP to text, classifies Email/twitter content into set of Emotions. Helpful to find out stressed work environments, depressed students etc.

Deep Reinforcement Learning based Network Load Balancing.

selected for 18th ACM Internet Measurement Conference (ACM IMC), Boston, MA, USA.

Ashwini D./Sangita K./Madhava G.

11/2018 URL

Discusses applying DRL to Network load balancer.

EDUCATION

Engineering in Information Technology

Govt College of Engineering, Karad; Shivaji University, Kolhapur India.

2003 - 2006

%
71 / 100