# CHAITANYA DANDUGULA

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## SUMMARY

Results-driven software professional with over a decade of expertise in various programming languages, coupled with a proven track record in design and development. Seeking to leverage extensive industry experience to excel in the role of Software Architect, bringing innovative solutions and strategic insights to drive project success.

## SKILLS

- Designing and implementing scalable and efficient software solutions across the full development life cycle.
- Proficient in various programming languages and frameworks, with a strong foundation in system architecture and software design.
- Extensive experience in collaborating with cross-functional teams to deliver high-quality, user-centric applications.
- Deep understanding of software development best practices, architectural patterns, and emerging technologies.
- Proven ability to translate business requirements into strategic technical solutions, ensuring alignment with organizational objectives.
- Excellent communication skills, facilitating effective collaboration between development teams, stakeholders, and leadership.
- Experienced in Golang and Docker with over 3 years of proficiency.
- Seasoned in software development using C and C++ with a track record of over 10 years.
- Well-versed in GNU/Linux development environments, accumulating more than a decade of experience.
- Strong debugging/troubleshooting skills.

## RELATED WORK EXPERIENCE

**Spirent** Bangalore, *India* (March 2019 - Present).

*Staff Software Engineer*

- Crafting solutions for a large scale system with the popular Spirent Test Center (STC).
- Next-gen network testing product development (successor to STC) using micro services architecture.
- Opensource contribution - [Luddite] (micro-framework for building RESTful services).
- Technologies: C++, REST, PostgreSQL, Golang, Python, Docker, Spirent network testing hardware.

**Infinera** Bangalore, *India* (1 Year).

*Lead Software Engineer*

- Developement of optical chassis simulator using Python, focusing on control plane features for optical networking elements.
- Layer 2 (L2) switching development using Broadcome SDK.
- Engaged in the development of an internal NodeJS based diagnostic tool for chassis troubleshooting, extending my efforts beyond my primary responsibilities.
- Technologies: C++, Linux, Broadcom SDK, QNX.

**Actiance** Bangalore, *India* (8 Months).

*System Analyst*

- Played a key role in building a recording solution, for Skype for Business.
- Successfully stabilized and enhanced the performance of the STUN module within six months, addressing instability and bugs.
- Collaborated closely with the performance team to optimize overall performance, focusing on memory footprint and execution speed.
- Technologies: C++, Poco, SIP, STUN, Skype for business front-end server.

**Unified Messaging Systems** Bangalore, *India* (4 Years).
*Senior Software Developer*
- Responsible for designing, developing, and testing additional components of the back-end system for voice alerts (IVR application).
- Actively contributed to all phases of the software design along with the technical architect team.
- Managed the creation and testing of a call processing library interfacing with Dialogic HMP (E1/T1 telecom cards) platform, from inception.
- Monitored and resolved production setup issues.
- Applied advanced C++ design patterns, utilized C++11 features, STL, and Boost libraries across projects.
- Employed SQL (MS-SQL) extensively, and developed Python scripts for database monitoring in the production environment.
- Provided valuable inputs during product specification reviews and assisted the sales team in accurate time estimation for software deliverables.
- Collaborated effectively with a distributed team across different geographical locations.

**Fraunhofer Research Institution for Applied and Integrated Security** Munich, *Germany* (6 Months).
*Student Research Assistant*
- Master thesis project - "Networking for smart meters"
- Evaluation of different network architectures suitable for building a network between a smart meter and a gateway.
- Evaluation of different network security protocols suitable for the network.
- Technologies - TCP, UDP, HIP, IP over transmission lines.

**Nokia Siemens Networks** Helsinki, *Finland* (3 Months).
*Summer Trainee*
- Part of the Flexiplatform IP Networking team.
- CPP Unit testing of the IPSec module of Flexiplatform[1].
- Setting up of complex networking scenarios using AdvancedTCA (ATCA) blades for testing of IPSec.
- Setting up of a development server, for my team, based on RHEL and a custom software development toolchain for WindRiver Linux platform.
- Worked in a Agile software development environment.

**MindTree** Bangalore, *India* (2 Years).
*Software Engineer*
- Design and implementation of Bluetooth profiles and protocols for EtherMind[2].
- Porting of EtherMind to various embedded systems with proprietary RTOS.
- Integration of Audio codecs with the Bluetooth stack.
- Auditing of security aspects of Bluetooth enabled devices.
- Bluetooth conformance testing with PTS and FTS tools.
- Development of scripts in Python for automated code-formatting.

EDUCATION

**Kungliga Tekniska Högskolan** Stockholm, *Sweden.*

Master of Science - Communication Systems, 2012

**P.E.S Institute of Technology, Visveswaraiah Technological University** Bangalore, *India.*

Bachelor of Engineering - Telecommunication Engineering, 2007

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[1] A proprietary OS for base station hardware from NSN.
[2] A proprietary Bluetooth stack of MindTree Ltd.

**Narlax Info Systems** Bangalore, *India* (1 Month).
*Instructor*

- Taught "Algorithms and Data Structures" course for final year B.E students.

**Youth for Seva** Bangalore, *India* (2 Years).
*Volunteer*

- Helped a team of doctors in conducting medical chekup camps at Govt. primary schools across Bangalore.
- Lead a team of 5 volunteers in organizing hospital visit drives for the Govt. schools students.
- Lead a team of 15 volunteers in planning and organizing an inter-school cultural festival - 'Chiguru'(participants: ˜1500)
- Volunteered for various activities of Youth for Seva in Education and health care divisions.

**Beta Labs Pvt. Ltd.** Bangalore, *India* (3 Months).
*Technical Director*

- Co-founded 'Semester-9' - a unique education program to connect the fresh Engineering graduates to the start up community.
- Formulated a 3-month go-to market plan.
- Setup the website and the course syllabus.
- Marketed the idea to 5 Engineering colleges with around 250 students.
- Marketed the idea to startup incubators (Microsoft Accelerator, Open Coffee Club) and bought a few early stage startups on board.

PUBLICATION

- Deepak M Subramanian, *Chaitanya Dandugula*, Deepak Kumar, Jayanth V and Karun Ramakrishnan,**"Intelligent Traffic Controller using image processing Techniques"**, IEEE INDICON 2007, Bangalore, India.

[*LinkedIn Profile*]