

Sharath Kolibailu Venkatesh

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Education

Binghamton University, State University of New York

Expected May 2018

Master of Science, Computer Science

GPA: **3.83/4.0**

Visvesvaraya Technological University, Belgaum (Karnataka), India

(Sep. 2010 – Jun. 2014)

Bachelor of Engineering, Computer Science

GPA: **8.8/10**

Technical Skills

- **Skills** – Java, C#, C, Swift, Python, PL/SQL, JSON, MapReduce, HTML, CSS
- **Networking** – Socket Programming and Networking Protocols
- **IDE** – Eclipse, Netbeans, Visual Studio, XCode
- **Version Control and Tools** – GitHub, Git, GitLab, BitBucket, JUnit, Maven, Jenkins
- **Operating Systems** – Mac, Windows, Linux

Professional Experience

Graduate Teaching Assistant - Binghamton University, New York, USA

(Aug. 2017 - Dec. 2017)

- Grading homework and assignments, presenting tutorials required for the assignments for the course Introduction to Programming languages, comprising 40+ students.
- Maintaining regular office hours twice a week to guide and resolve students' queries

System Software Engineer Intern - Hewlett Packard Enterprises [HPE] - California, USA

(Jun. 2017 - Dec. 2017)

- Involved in developing test framework for the support of Arista Network Switches (top of the Rack switch)
- Designed high quality software by developing live device test at OneView SAL Layer
- Involved in collecting dynamic switch status by translating Arista EAPI JSON files into Arista SAL Java Object
- Developed a Java custom parser for textual data (not supported as JSON by Arista) into Arista SAL Java Object

Software Developer - Tata Consultancy Services [TCS] – Bangalore, India

(Aug. 2015 - Jul. 2016)

- Worked for Walgreens (contract) to develop software applications (namely, automatic placement of seasonal and promotional planogram) for Walgreens, preventing manual placement of planogram
- Used C# for developing windows forms application and SQL queries for performing backend operations

MS Access Application Support Engineer - Tata Consultancy Services [TCS] – Bangalore, India

(Jan. 2015 - Jul. 2015)

- Worked for SuperValu Inc (contract) to maintain and support the developed application, resolving the issues faced by the customer
- Had an opportunity to develop few HR application to the company (PortMenu, PersonalDB naming a few) and worked on documentation regularly and Interacting with the clients about the progress on the work on a daily basis
- Used VBA language as front end design and SQL queries for the backend

Academic Projects

- **HTTP Proxy with Caching** (Sep. 2017 - Dec. 2017)
 - Developed a HTTP proxy server using C programming, which had the ability to store the recently fetched information. It reduced the overall information latency by 60% by retrieving the information from the proxy server
- **Network Routing Protocol** (Sep. 2017 - Oct. 2017)
 - Created a multiple client server environment using multithreaded programming in C and implemented Distance Vector routing algorithm to determine appropriate routing path between the client and the server
- **Instruction Set Simulator** (Aug. 2017 - Sep. 2017)
 - Developed a simulator using Java programming language, consisting of 5 pipeline stages (Fetch, Decode, Execute, Memory, Write back) which includes handling of jump and branching instructions.
 - Implemented using Singleton design pattern and Collections (ArrayList, HashMap, Circular Queues) reducing 2 clock cycles per instruction, which increased the overall efficiency by 40%.
- **Conferencing Application** (Feb. 2017 - Mar. 2017)
 - Created a conferencing application using multithreaded programming C that enables conversation between multiple clients. Clients connect to the server and all the connected clients receive all the messages transmitted by any of the clients
- **Flappy Bird and Break Out Game (iOS)** (Oct. 2016 - Dec. 2016)
 - Developed all device compatible game namely, "Flappy Bird and Break Out" for iOS mobile environment using Swift as a programming language and XCode as an IDE.
- **Noval Antiphishing** (Jan. 2014 - Jun. 2014)
 - Developed a project using C# ASP .Net and SQL queries on enhancing security in Online Trading websites (2-layered security system), implemented using Image Captcha based on Visual Cryptography.

Professional Memberships and Leadership

- **IEEE Student Community** - Volunteered for many national level technical symposium (Aug. 2012 – Aug. 2014)
- **EMC2** - Worked as a student ambassador for EMC2 and attended Conference conducted by EMC2 (Aug. 2012 – Aug. 2014)
- **Kaliyuva Mane** - Conducted many fund raising events in public for the charitable trust (Dec. 2012 – Aug. 2016)