

# Rama Narasimhan M

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## TECHNICAL SKILLS:

**Languages:** C++ , Java , Python.

**Web Technologies:** React.js, Angular, Node.js, Express.js, HTML5, CSS, jQuery, AWS S3, EC2.

**Databases:** MySQL, MongoDB.

**Version Control/ Build Tools:** Git, Perforce.

**Tools and Frameworks:** React-Native, Redux, MVC, Kibana, Jest, Docker.

## EXPERIENCE:

### **Senior Software Engineer, Divisions Maintenance Group, Bangalore, India**

Jan 2022-July 2022

- Developed the User Interface (UX) and application logic of the new [DMG Pro](#) mobile application which increased the speed of the user experience by 50%.
- Designed and Developed the business-critical Photo-snap feature for the new DMG Pro application UX development, which resulted in a 30% faster verification process over the old app and also improved technician productivity.

**Technologies used:** React-Native, Redux, [styled-components](#), [React-Navigation](#).

### **Software Development Engineer in Test-1 / Software Development Engineer-1, Amazon, Chennai, India**

Aug 2020-Dec 2021

- Led the migration of the front-end of the Kindle device settings and Out-of-box experience (OOBE) applications from Java-based to a React Native and C++ application, leading to a 40% faster render time and a 50% faster user onboarding time. Designed and implemented the application UI using React Native and implemented the device-level logic using C++, establishing seamless communication with various Kindle device services such as Registration, Bluetooth and Wi-Fi.
- Designed and implemented the Notebook Library feature of Kindle Scribe using React Native and C++, allowing users to create notes and organize them.
- Developed a Kindle e-Book summarization widget as part of the Kindle hackathon at Amazon. It presents a summary of the contents of the pages of a book that the user has read so far, using an online text summarization model ([Pegasus](#)) API.

**Technologies used:** React-Native, C++, Java, MySQL, Docker, CMake.

### **Associate Software Engineer, Gen (NortonLifeLock), Chennai, India**

Jul 2018-Jul 2020

- Reduced the manual testing and debugging effort on Norton Antivirus by 90% by developing a tool which monitors the performance of Norton Antivirus and logging any anomalies during manual tests and automated test runs.
- Implemented a novel mechanism to collect debug information automatically during memory leaks that happen during the automated test runs by using the Microsoft AppVerifier tool and JS Debugger scripting, which reduced the developers' effort to debug the leaks by 90% and consequently fix the leaks quicker.
- Developed a proof-of-concept integration of Dropbox with Norton CloudScan API using Node.js and Express.js which scans Dropbox files for viruses.
- Developed a proof-of-concept integration of Gmail with Norton Anti-Spam using Node.js and Express.js which filters its emails for spam.

**Technologies used:** C++, Node.js, Express.js, Filebeat, Kibana, [Windows Sysinternals](#), [JS Debugger scripting](#).

### **Associate Software Engineer Intern, Gen (NortonLifeLock), Chennai, India**

Jan 2018-Jun 2018

- Reduced the manual-testing effort of Norton Antivirus by 90% by writing libraries and scripts in Python to automate test cases for the antivirus features: Norton-Power-Eraser, Auto-protect, Scanning, and Exclusion.
- Developed a dashboard which displays various metrics about the automation test runs on Norton Antivirus for an overall summary of the test results, using Angular, Node.js and MongoDB.

**Technologies used:** Angular, Node.js, MongoDB, Python.

### **Undergraduate developer Intern , OneWhistle Inc, Chennai, India**

Apr 2017-May 2017

- Built a high-performance Node.js REST API that delivers push notifications and alerts to nearby producers and consumers, allowing them to receive assistance, services, or emergency SOS.

**Technologies used:** Node.js, Express.js, MongoDB, AWS S3.

## **EDUCATION:**

### **Master of Computer Science**

Arizona State University, Tempe, USA.

Aug 2022-December 2023 (Anticipated)

CGPA: 3.9/4

### **Bachelor of Technology, Computer Science & Engineering**

SASTRA University, Thanjavur, India.

Jun 2014-May 2018

CGPA: 8/10

## **ACTIVITIES AND ACHIEVEMENTS:**

- Implemented the code for key operations of a Google Bigtable-like DBMS like Record insertion, sorting, Row join and query by enhancing the [minibase code in Java](#). Implemented and compared different indexing strategies utilizing B+ trees for maximizing the query performance.
- Developed a website for musicians to register and be requested to perform for events by organizers, using MERN stack (React.js, Redux, react-router-dom, [styled-components](#), Node.js, Express.js, and MongoDB).  
Link: <https://booking-benefit-live-client.onrender.com/>
- Mentored a team of interns at NortonLifeLock, enabling them to get acquainted with the Automation testing library quickly and deliver results with quality.
- Represented my college, SASTRA university at the ACM Inter-Collegiate Programming Contest (ICPC) Kolkata regionals for 2 years (Dec 2016 and 2017).