

Rama Narasimhan Magesh

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EDUCATION:

Master of Computer Science

Arizona State University, Tempe, USA.

Relevant Coursework: Database Management Systems Implementation, Software Security, Applied Cryptography.

Aug 2022-May 2024 (Anticipated)

CGPA: 4/4

Bachelor of Technology, Computer Science & Engineering

SASTRA University, Thanjavur, India.

Jun 2014-May 2018

CGPA: 8.03/10

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%.
- Developed the 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, Amazon, Chennai, India

Aug 2020-Dec 2021

- Designed and developed the business logic and UX of the refreshed Kindle Out-of-box experience (OOBE), leading to a 50% reduction in user onboarding time.
- Designed and implemented the Notebook Library feature of Kindle Scribe, which allows users to create notes and organize them.
- Migrated the UX and application logic for the Quick-Settings, WiFi and Sign-In, modules of Kindle device settings from Java to React-Native, leading to a 40% faster render time.

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

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.
- Implemented a backend service using Node.js that integrates Norton Cloud Scan with DropBox, that enables its files to be scanned for threats.

Technologies used: C++, Node.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 IronPython 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 in order to quickly identify any failed test cases and to see the overall testing status of it.

Technologies used: Angular, Node.js, ElasticSearch, Python.

Undergraduate developer Intern , OneWhistle Inc, Chennai, India

Jan 2018-Jun 2018

- 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.

TECHNICAL SKILLS:

Languages: C++, Java, Python.

Web Technologies: React, Angular, Node.js, Express.js, HTML, CSS, jQuery, AWS S3.

Databases: MySQL, MongoDB.

Version Control/ Build Tools: Git, Perforce.

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

ACTIVITIES AND ACHIEVEMENTS:

- Won the Kindle hackathon at Amazon, by developing a text summarization widget that presents a summary of the contents of the pages of a book that the user has read so far, using online text summarization models.
- Represented SASTRA university at the ACM Inter-Collegiate Programming Contest (ICPC) Kolkata regionals for 2 years (Dec 2016 and 2017).
- Among the top 1000 participants in Google Kickstart in 2016, Round B, and in 2017, Round G (username: Rama4).
- Top places in the following programming competitions during undergraduate studies:
 - 1st place in Tide coding contest, for two years (2017 & 2016).
 - 2nd place in Daksh Utsav coding contest, (Sep 2017).