

# Rama Narasimhan Magesh

Tempe, AZ 85281 | [rmagesh@asu.edu](mailto:rmagesh@asu.edu) | (407) 765-6061 | [www.linkedin.com/in/rama-narasimhan](https://www.linkedin.com/in/rama-narasimhan) | <https://github.com/rama4>

## EDUCATION:

### Master of Computer Science

Arizona State University, Tempe, USA.

Aug 2022-May 2024 (Anticipated)

CGPA: 4/4

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

### Bachelor of Technology, Computer Science & Engineering

SASTRA University, Thanjavur, India.

Jun 2014-May 2018

CGPA: 8.03/10

## EXPERIENCE:

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

Jan 2022-July 2022

- Developed the User Interface (UX) and application logic of the [DMG Pro mobile application](#) which reduced the check-in process for technicians by ~50%.
- Designed and developed the UX of the business-critical photo-snap module as part of the DMG Pro application UX development, and made it offline-compatible, enabling technicians to take photos in places with low internet connectivity and upload them later.

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

### Amazon, Chennai, India : Software Development Engineer in Test- 1 (Software Development Engineer – 1)

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.
- Improved the render time of the Sign-In and Quick-Settings modules of Kindle by 80%. This involved using tools like React Profiler to identify bottlenecks and optimize them, pre-fetching and caching the required information from the back-end.
- Implemented the UX and application logic for the Quick-Settings, WiFi, Sign-In, GoodReads modules of Kindle Settings.

**Technologies used:** React-Native, C++, Cmake.

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

Jul 2018-Jul 2020

- Reduced the manual testing and debugging effort on Norton Antivirus by 90% by developing the Health-Monitor tool which leverages Microsoft SysInternals tools for monitoring 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.

**Technologies used:** [Windows Sysinternals](#), [JS Debugger scripting](#), C++, [Windows Component Object Model](#), Filebeat, Kibana.

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

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, NodeJs, Elasticsearch.

## TECHNICAL SKILLS:

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

**Web Technologies:** HTML, CSS, jQuery, React.js, Node.js, Angular.

**Databases:** MySQL, MongoDB.

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

**Tools and Frameworks:** React-Native, ReduxJS, REST, CMake, Filebeat, Kibana, NodeJs, 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.
- Mentored a team of interns in their onboarding process at NortonLifeLock by making them acquainted with the development environment.
- 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).