Rama Narasimhan M

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EDUCATION:

Master of Computer Science Aug 2022-December 2023 (Anticipated)
Arizona State University, Tempe, USA. CGPA: 3.9/4

Bachelor of Technology, Computer Science & Engineering Jun 2014-May 2018
SASTRA University, Thanjavur, India. CGPA: 8/10

TECHNICAL SKILLS:

Languages: C++ , Java , Python.
Web Technologies: React.js, Angular, Node.js, Express.js, HTML5, CSS, jQuery, AWS S3, EC2.
Tools and Frameworks: React-Native, Redux, Jest, Docker, git, perforce.
Databases: PostgreSQL, MySQL, MongoDB.

EXPERIENCE:

Senior Software Engineer, Divisions Maintenance Group, Bangalore, India Jan 2022-July 2022
- Developed the UX and application logic of the DMG Pro V2 mobile app, with enhancements including faster render time and improved UX.
- Innovated the photo-snap feature and added offline storage capability to the app, enabling technicians to upload photos from areas with poor connectivity.
  Technologies used: React-Native, Redux, styled-components, React-Navigation.

Software Development Engineer in Test-1, Amazon, Chennai, India Aug 2020-Dec 2021
- Led the migration of the Kindle device settings and Out-of-box experience applications from Java to React Native and C++ which included re-designing the application architecture to interact with various Kindle native apps like Registration, Bluetooth and Wi-Fi, resulting in 40% faster render time and 50% faster user onboarding.
- Designed and implemented the Notebook Library feature of Kindle Scribe using React Native and C++, allowing users to create notes and organize them.
- Developed an 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, so the users can recall easier.
  Technologies used: React-Native, C++, Java, MySQL, Jest, Docker, Cmake.

Associate Software Engineer, NortonLifeLock, Chennai, India Jan 2018-Jul 2020
- Developed a tool that monitors the performance of Norton Antivirus and logs anomalies during automated test runs, reducing the manual testing and debugging effort by 90%. Innovated a novel mechanism to collect debug information automatically during memory leaks using Microsoft AppVerifier and JS Debugger, helping developers to debug the leaks quicker.
- Developed proof-of-concept integrations of Dropbox and Gmail with Norton CloudScan API for scanning user data for viruses and spam, involving the development of an OAuth 2.0 authentication client implemented using Node.js and Express.js.
- 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.
- 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.
  Technologies used: C++, Angular, Node.js, Express.js, MongoDB, Python, Filebeat.

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.

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 SASTRA university at the ACM Inter-Collegiate Programming Contest regionals for 2 years (Dec 2016 and 2017).