Rammanoj Potla

857-350-2995 • rammanojpotla1608@gmail.com • linkedin.com/in/rammanojp/ • github.com/rammanoj

Summary: MS Computer Science student with a professional experience of 2 years in app, cloud & infrastructure development. Eager to learn new technologies and engage in challenging projects. Seeking Summer 2023 Internship opportunities.

EDUCATION

Master of Science in Computer Science   **September 2022 - Present**
Northeastern University, Boston, MA

Bachelor of Technology in Computer Science and Engineering   **July 2016 - July 2020**
Amrita Vishwa Vidyapeetham, Kerala, India   GPA: 9.38/10

EXPERIENCE

Software Development Engineer, **Informatica**, [K8S, Python, AWS, Java, ReactJS]   *August 2020 – August 2022*
- Replaced Jenkins with K8S to **enhance the orchestration** of agents and amplified agents' utilization by 30%. Containerized the build jobs on Jenkins that detached their dependency on agents for the environment.
- Implemented backend, frontend to add **CI/CD pipeline data of 4 new products** to the build & deploy dashboard. It saved ~10 man-hours a week for the developers by presenting all required data in a single place.
- Clustered the build logs to ~20 clusters and trained a **Bayes classification model** to classify log errors in real-time. This classification reduced load on the dev-ops team as developers could get insights into several build issues.
- Saved ~8 man-hours a week by creating a pipeline to **scan microservices** that flag vulnerabilities & license risks.
- Enhanced the build dashboard performance by ~33% through gzipping & minifying data during transmission.

GSoC'19 Intern, **Wikimedia**, [Django, React, Docker, PostgreSQL]   *May 2019 – August 2019*
- Developed a full-stack web app (WikiContrib) to aggregate Wikimedia developer contributions across different platforms to a unified dashboard. This brought down tens of hours of validation time to the Scholarship committee for providing money waivers.
- Displayed the data intuitively using visualization models such as bars, line graphs and a **heatmap calendar** in the frontend. Hundreds of Wikimedia developers use this tool to showcase their contributions.
- Designed query mechanism to track searches uniquely. Reduced the load-time by 300% using parallel programming to fetch the data enabling real-time responsiveness.

SDE Intern, **Amrita IAS Academy**, [NodeJS, React, Elasticsearch]   *October 2018 – February 2019*
- Created a full-stack Webapp to **conduct descriptive exams online** with the features to chat, upload solutions, video discussions, etc. Hundreds of students across the org utilized this during COVID.
- Resolved the problem of uploading large video files in low-unreliable bandwidth conditions by implementing algorithms which break the file into chunks and resumable uploads across multiple devices.

PROJECTS

Social Chat, [ReactJS, jQuery, Flask, MongoDB]   *March 2019 – April 2019*
- Developed a social media web app. Designed a 3NF schema and implemented tree data-structure using tables to enable creating channels & sub-channels.. A user can **share media/text among groups** (just like a tweet).
- Employed a Redis to queue the edits made to the database. This prevents resource outages.

Home Automation, [Firebase, HTML, JS, CSS, Arduino Uno]   *April 2018 – May 2018*
- Devised a frontend web app to **access electric appliances** at home such as Fans, TVs and Lights remotely.
- Compiled a software on the IoT chip **NodeMcu ESP8266** to retrieve/change the state of the electric appliance. Security systems are equipped to detect & alert fire/smoke.

TECHNICAL SKILLS

- **Languages:** Python, JavaScript, Java, C, C++, PHP, NodeJS, HTML, CSS, Shell Script, Batch Script, Groovy
- **Tools:** Kubernetes, Docker, Jenkins, Veracode, Blackduck, SonarQube, MATLAB, Django, Flask
- **Libraries:** ReactJS, jQuery, OpenCV, Arduino Uno, Bootstrap
- **Others:** Git, Perforce, Elasticsearch, PostgreSQL, AWS, Nginx, Nexus, Machine Learning, DBMS, REST, MongoDB

PUBLICATIONS

- Rammanoj Potla et al. *Collision Detection for USVs: An Analysis on CV Algorithms*. Published in Smart Computing journal by Taylor & Francis Group

AWARDS & CERTIFICATES

- **Best Innovator of Team** at Informatica in the first year of joining.
- **2nd Prize at SLAC** hackathon by General Electric (GE).
- **Certified Kubernetes Application Developer (2022)** by Cloud Native Computing Foundation (CNCF)