

Rajkumar Sukumar

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EDUCATION

Master of Science in Computer Science

Dec 2023

Arizona State University | Tempe, AZ, USA

GPA : 3.95/4.0

Relevant Coursework: Cloud Computing, Data Processing at Scale, Software Security, Advanced Operating Systems

Bachelor of Technology in Computer Science and Engineering

Jun 2021

Amrita Vishwa Vidyapeetham | Coimbatore, Tamil Nadu, India

GPA : 8.57/10.0

EXPERIENCE

Cruise - Self Driving Cars

May 2023 – Aug 2023

Software Engineer Intern | Tech : GoLang, gRPC, Docker, Kubernetes, GCP, Terraform

Bellevue, WA

- Developed a self-service snapshot restoration feature for virtual machines used by Cruise engineers, effectively minimizing developer hours spent on a single restoration by an impressive **80%**.

CodeChef (Unacademy Group)

Jul 2021 – Jul 2022

Application Engineer | Tech : PHP, Python, ReactJS, MySQL, SaltStack, AWS

Bangalore, India

- Streamlined site management by crafting a CLI tool integrated with Nginx, and implemented DevOps practices for release automation, resulting in a **25%** decrease in deployment errors and a **20%** increase in deployment frequency.
- Engineered scalable real-time notifications using websockets in nginx by leveraging the 'nchan' module, resulting in a **50%** increase in real-time notification delivery speed.

Anokha (Amrita University's Tech-fest)

Nov 2019 – Feb 2020

Head of the Software Team | Tech: Laravel, MySQL, NuxtJS, Angular8, CentOS

Coimbatore, India

- Led a team of 10 in developing and delivering a suite of impactful applications that played a crucial role in organizing the tech-fest, resulting in a seamless and engaging experience for **10,000+** participants and attendees.

PSG Software Technologies

May 2019 – Jun 2019

Mobile App Developer Intern | Tech : NodeJS, NativeScript

Coimbatore, India

- Designed and deployed a cross-platform mobile application to manage health profiles of families in community areas of PSG Urban Health Centre, promoting efficient healthcare management.

PROJECTS

Notify Abroad | Android, Java | <https://github.com/rajkumaar23/notify-abroad>

- Launched an innovative Android app enabling real-time relay of SMS/calls between devices, leveraging the power of Telegram messaging platform, generating over **700,000** impressions on LinkedIn.

Flowgramming | HTML, Bootstrap, jQuery, JointJS | <https://github.com/rajkumaar23/flowgramming>

- Built a progressive web application as an efficient alternative to Flowgorithm, empowering users to seamlessly design & execute flowcharts while encompassing essential programming constructs like user-defined functions & 2D arrays.

Amrita Repository | Android, SQLite, Web Scraping, PHP, Python | <https://github.com/rajkumaar23/amrita-repository>

- Engineered an Android app & Telegram bot providing valuable resources such as old question papers & timetables to peers, resulting in over **10K** downloads in the Play Store and garnering appreciation from the Dean of Engineering.

Amrita Wallet | Android, NodeJS, MongoDB, VueJS

- Implemented cashless payment system university-wide, replacing cash with rechargeable student ID cards, resulting in nearly **5000** active cards.

TECHNICAL SKILLS

Areas of Interest: Full Stack Development, Distributed Systems, Cloud Computing, Cyber Security

Languages and Frameworks: C++, PHP, Java, JavaScript, Go, Protobuf, SQL, Python, Android, Node.js, ReactJS

Tools and Technologies: AWS, Docker, Kubernetes, Apache2, Nginx, Jenkins, SaltStack, Terraform, Neo4j, Kafka

AWARDS / EXTRACURRICULAR

- Empowered students as a tutor at McClintock High School in Tempe, AZ, as part of the AZ-R3 program by Access ASU.
- Recognized with the prestigious **Outstanding Project Award** for Flowgramming by Amrita School of Engineering.
- Worked as a Teaching Assistant at Internshala, catalyzing student learning through support & content enhancement.
- Achieved a remarkable **2nd** position out of 30 teams in a competitive polyglot coding contest at Anokha Tech-fest 2020.
- Acknowledged for reporting critical security vulnerabilities, earning bug bounties from multiple organizations.