Rajkumar Sukumar

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EDUCATION

Arizona State University   **Aug 2022 – May 2024**
Master of Science in Computer Science   Tempe, AZ

Amrita Vishwa Vidyapeetham   **July 2017 – June 2021**
Bachelor of Technology in Computer Science and Engineering | GPA : 3.43/4.0 (8.57/10.0)   Coimbatore, India

EXPERIENCE

CodeChef (Unacademy Group)   **May 2020 – July 2022**
Application Engineer | Prev. Intern | Tech : PHP, Python, ReactJS, MySQL, SaltStack, AWS   Bangalore, India
- **Division 4** - Introduced the fourth division of users to reduce the barrier for first-time programmers.
- **Mashups** - Designed a portal for users to create their private contests with problems of their choice.
- **Contest Management** - Migrated the entire "host your contest" portal written in EmberJS to ReactJS.
- **Site Manager** - Built a CLI tool using PHP and integrated it with Nginx to manage the sites during maintenance.
- **DevOps** - Integrated GitHub action pipelines for tasks including release-notes generation, code linting, and unit testing.
- **Security** - Mitigated various security vulnerabilities ranging from XSS to SQL injections.

Anokha (Amrita University's Tech-fest)   **Nov 2019 – Feb 2020**
Head of the Software Team | Tech: Laravel, MySQL, NuxtJS, Angular8, CentOS   Coimbatore, India
- Managed a **team of 10** in building and delivering a suite of applications essential for organizing the tech-fest.
- The apps included a mobile-friendly PWA based on NuxtJS, an android app, an API service built using Laravel, and an administration portal built with Angular 8.

PSG Software Technologies   **May 2019 – June 2019**
Mobile App Developer Intern | Tech : NodeJS, NativeScript   Coimbatore, India
- Devised and delivered a cross-platform mobile application using NativeScript, for maintaining the health profiles of families in community areas of PSG Urban Health Centre.

Internshala   **June 2018 – May 2020**
Teaching Assistant | Tech: C, C++   Remote
- Demystified technical queries of students, evaluated assignments, and upgraded the training content.

PROJECTS

Amrita Repository | Android, SQLite, Web Scraping, PHP, Python | GitHub Link
- Engineered an android application and a telegram bot for my peers to avail old question papers, timetables, etc., which has received over **10,000** downloads in the Google Play Store, with an average of **4000** monthly active users.
- Received a letter of appreciation from the Dean of Engineering for making students' academic lives easier.

Flowgramming | HTML, Bootstrap, jQuery, JointJS | Application Link
- Built a progressive web application, as an efficient alternative to Flowgorithm, to design and execute flowcharts, with the support for all basic programming constructs, including but not limited to user-defined functions and 2D arrays.

Amrita Wallet | Android, NodeJS, MongoDB, VueJS
- Standardized payments across the university including cafeterias, by replacing cash with rechargeable student ID cards, with nearly **5000** active cards as of date.
- Developed an android app for scanning cards and making payments, with the help of a centralized NodeJS server on top of a MongoDB cluster added with an admin portal built using VueJS for monitoring.

Campus Management System | PHP, Laravel, MySQL, Android | Website Link
- Contributed REST APIs in Laravel and an Android app to the system, which is used by security guards and monitored by the college authorities for tracking students' day-to-day access to campus.

TECHNICAL SKILLS

Areas of Interest: Full Stack Development, Cyber Security
Languages and Frameworks: C++, PHP, Java, JavaScript, SQL, Python, Android, Node.js, Angular, ReactJS, Laravel
Tools and Technologies: AWS, Docker, Apache2, Nginx, Jenkins, SaltStack

AWARDS / EXTRACURRICULAR

- Received the prestigious **Outstanding Project Award** for Flowgramming from Amrita School of Engineering.
- Secured 2nd **position** out of 30 teams in a polyglot coding contest, during Anokha Tech-fest 2020.
- Received bug bounties from various organisations for reporting critical security vulnerabilities.
- Conducted workshops for 50+ students as the Head of Android at Developer Student Clubs by Google Developers.