

ABEY K RAJAN

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WORK EXPERIENCE

- **React Native Developer (Volunteer) – Folio Up, Remote** May 2025 - Current
 - Built and maintained cross-platform apps in React Native.
 - Collaborated with designers to craft responsive, visually appealing UIs.
 - Refactored code and optimized libraries, cutting load time.
- **Research Assistant – ESL Lab, UMBC (PI: Dr. Mohammad Samarah)** Apr 2024 – Apr 2025
 - Engineered responsive React.js web apps, enhancing user experience and engagement across platforms.
 - Constructed Django REST APIs for text summarization, enabling seamless integration and automation.
 - Built and maintained Cypress tests to ensure reliable end-to-end functionality and user workflows.
- **React Developer (Intern) – YouROK Corp, Menlo Park, CA, USA** Jul 2024 – Oct 2024
 - Crafted responsive web pages in Next.js and Tailwind CSS, ensuring smooth multi-platform access.
 - Optimized Node.js/Express APIs, reducing response time by 30%.
 - Used GitHub for version control, tracked and resolved bugs in Jira throughout 20+ Agile sprints.
- **Specialist Programmer, Infosys Ltd – Electronic City, Bangalore, India** Sept 2020 – Aug 2023
 - Developed a scalable employee management system in Laravel, increasing client satisfaction by 60%.
 - Optimized SQL queries and added Redis caching, reducing DB response time by 20%.
 - Built dynamic PDF-ready reports with Blade and JS, improving usability by 35%.
 - Integrated RBAC for dynamic content control and user-specific access.
 - Automated Cypress tests via Jenkins CI/CD and cron jobs, reducing QA time by 40%.

PROJECTS

- **Software Bill of Materials Finder** *Java Spring Boot, React (Next.js), TypeScript, PostgreSQL, Syft, OSV API*
 - Built a full-stack SBOM Finder to generate Software Bills from firmware, reducing manual analysis time.
 - Enabled SPDX and Cyclone-DX format downloads of SBOMs, boosting traceability and audit readiness.
- **ESL V1** *Django, React, JavaScript, PostgreSQL, VS Code, Jupyter, NLP*
 - Built Django REST APIs for ToS summarization using spaCy for ethical software analysis.
 - Developed React UI for displaying summaries and improving user access.

EDUCATION

- **University of Maryland - Baltimore County – Baltimore, MD, USA** Aug 2023 – May 2025
Master of Professional Studies in Software Engineering GPA: 3.73/4.00
- **APJ Abdul Kalam Technological University – Kottayam, Kerala, India** Aug 2016 – Aug 2020
Bachelor of Technology in Computer Science and Engineering

SKILLS

Programming Languages:	Python JavaScript TypeScript PHP Java C/C++
Front-end Development:	React.js React Native HTML5 CSS3 Tailwind CSS
Backend Development:	Spring Boot Laravel Django Node.js RESTful APIs Microservices
Cloud & DevOps:	AWS (Lambda, EC2, S3) Docker Jenkins CI/CD Pipelines
Databases & Tools:	PostgreSQL Redis MongoDB MySQL Git GitHub GitLab Jira
Functional Skills:	Stakeholder Management Business Communication Cross-Team Collaboration