

Keerthan Gopalakrishnan

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TECHNICAL SKILLS

Languages	Java, Python, JavaScript, C, C++, SQL, HTML/CSS
Technologies	Spring Boot, Flask, Node.js, Kafka, MariaDB, React/Next.js, REST, Supabase
Tools	Docker, Digital Ocean, Git, Linux
Domains	Backend Development, Full-Stack Development

PART-TIME WORK EXPERIENCE

IoTReady.co

Jul 2023 - Present

Delivery Executive management app | React Frontend Development

- Developed a front-end application for a large grocery delivery platform, facilitating driver earnings and incentive tracking.
- Implemented features for detailed payment breakdowns, covering incentives, taxes, and deductions.
- Collaborated with backend developers to integrate payment calculation logic, and data accuracy.
- Cross-verification and validation with backend Frappe and MariaDB (SQL queries).

IoT Edge management software | Phoenix/Elixir - Full Stack Web Development Framework

- The data platform collects data from thousands of devices, barcode scanners, RFID readers, etc.
- Added features to check device health, search devices, and update the firmware of devices in batches.

Other Development Projects

- Software upgrade and maintenance for the above products; various POC work using Python/Frappe.
- Football Player Progress management software enhancements and maintenance for MatchFives, Spain
- Synced Zoho Resources with Supabase database using Supabase Edge Functions and Cron Jobs.

neoscale.io

Money Split mobile app | React Native, Spring Boot

Jan 2023 - May 2023

- Split bills/expenses and integrate with US financial institutions to fetch transactions using PLAID APIs.
- Languages/Frameworks: Spring Boot, React Native, PLAID API, SPLITWISE API, OKTA APIS

Ruby On Rails Development

Oct 2022 - Mar 2023

- Defect fixes and minor improvements for existing targeted advertisement service

CISCO (Android/IOS app) | Young Talent Development Program from CISCO

May 2018 - Dec 2018

- Android/IOS application to keep track of the location of Alzheimer's patients.
- Languages/Frameworks: React Native, Firebase, and Arduino (Embedded C)

ACHIEVEMENTS

- **Hallaton PES(2022)** - Developed a Java Maven Dependency Checker that checks upgrade dependencies.
- **Silicon Rush - IEEE PES(2022)** - Built a smart socket that can switch on/off the socket remotely, along with calculating power consumed by each socket with which we can estimate the cost of electricity per socket, also built a smart gardening and watering solution. Languages used: HTML, CSS, Javascript, Django, Embedded C.
- **Aikya Hackathon(2022)** - Built a product that could detect if a child is molested and call the concerned authorities. Languages Used: HTML, CSS, Javascript, Django, Embedded C.
- **The Amateur Scientist(2017)** - Built a wedge type PS3 controlled car whose main aim was to knock other cars out of the ring. Languages Used: Embedded C/Arduino.

COLLEGE PROJECTS (MAJOR)

- **Benchmarking Microservices** – Automate microservices call graph generation, services simulation stub, and benchmark data.
- **Distributed load testing** - Testing a high load of requests on a web server using Kafka and Flask.
- **NumPy for C++** - A linear algebra library for C++ (using C++).

EDUCATION

Bachelor of Technology in Computer Science, PES University, CGPA 8.61	2021-2025
National Public School, HSR layout, CBSE XII, 95.2%	2010-2021