# Jonathan Rufus Samuel
Software Engineer | Cloud Administration | Open-Source Advocate

## EXPERIENCE

### HYPERFACE | SDE Intern - Backend Engineering
January 2024 – Present | Bangalore, KA
- Developed an Employee Management System as part of training for Java Spring Boot Development. Worked on CRUD operations development, authentication and authorization, testing and migration to Apache Groovy.
- Handled Information Security issues with Bank Dashboards, including encryption of insecure data fields, fixing enumeration issues, recreating security breaches via Burpsuite, and addition of code to preserve security.
- Wrote scripts using Python to handle migration of over 1 million records from bank servers to company servers.

Tools Used: Java, Apache Groovy, Java Spring Boot, Spring Security, Apache Kafka, Gradle, Postman, MySQL, Python Scripting, Burpsuite.

### RIVER BEND DATA SOLUTIONS | Junior Software Engineer
May 2022 – Aug 2022 | Hyderabad(Remote)
- Developed 'iClinic', a cross-platform patient & hospital management system. Worked on React-Native, NodeJS, Express JS and MongoDB.
- Designed and developed fundamental business logic, including authentication handling, API design, Schema Design and basic DevOps administration.
- Improved App performance by 25% by utilising React Native best practices, including improved caching and Lazy Loading.
- Nominated as Junior TechLead for a period of 2 Months, tasked with junior team management, reporting of progress to senior team, handling of sprint meetings and assigning of work within Agile Development Setting.

## PROJECTS & OPEN-SOURCE WORK

### DIJKSTRA | Open Source Developer & Maintainer
February 2023 – present | Bangalore | github.com/Dijkstra-Edu
- Built a Full-Stack Educational App, along with an Admin panel for uploading posts on DSA preparatory work & Solutions of Leetcode and Hackerrank Problems, along with other information pertaining to Interview Preparation.
- Started a GitHub organization for the same, currently catering to 30 junior CS students. Currently in development and Testing, set for App Store release in 2024.
- Currently head Systems Administrator of Azure Cloud Services for Dijkstra.
- Successfully transitioned API infrastructure from Netlify to Azure Cloud. Containerized and scaled API services via Kubernetes (AKS) and Docker, thereby improving response times from 45s to 2s.

Tools Used: React Native JS, NodeJS, ExpressJS, MongoDB, HTML, CSS, Azure Cloud, Docker, Kubernetes (AKS), Lens, Netlify Cloud, Postman, Git and GitHub.

### APPFLOWY | Open Source Software Developer
March 2023 – present | Singapore (remote)
- Made a total of 6 Pull Requests addressing various bugs in the code base.
- Drafted 2 technical articles and 3 major documentation changes.
- Handled Unit Test cases for AppFlowy's flutter bloc editor, improved code coverage by 18%.

Tools Used: Flutter, Dart, Rust, Codecov, Postman

### AUTOMATED MP3 TAG EDITOR VIA DATA MINING
Github: github.com/Mp3-Automated-Tag-Editor
- Worked with Shivansh Sahai and Dr. Swarnlatha P to create Automated Mp3 Tag Editor, a tool which scrapes metadata of music tracks from various sources, and classifies them via a Vector Indexing Machine Learning Algorithm.
- Built API server using FastAPI and Python, and built out a Desktop Application using React.js, Tauri, Rust and JavaScript. Deployed via Azure.

DOI: 10.4018/978-1-6684-8098-4.ch012

Tools Used: Rust, Python, FastApi, React, Tauri, Postman, Azure, Docker, Sqlite, ShadCN UI.

## EDUCATION

### VELLORE INSTITUTE OF TECHNOLOGY, VELLORE
B.Tech Computer Science Engineering w/ Specialization in IoT
CGPA: 8.58
2020-2024| Vellore, India

### BISHOP COTTON BOYS' SCHOOL
2005-2020| Bangalore, India
12th Boards: 93.5% (ISC)
10th Boards: 91.2% (ICSE)

## SKILLS
Programming
Java • Python • Javascript • TypeScript • Rust • C++ • SQL (MySQL, PostgreSQL & SQLite3)
Frameworks & Technologies
React JS • React-Native • Spring Boot • Git & GitHub • NodeJS & ExpressJS • MongoDB • REST API Design • Docker • AKS - Kubernetes • ElectronJs • FastAPI • Tauri • Selenium • Jest • Azure Cloud • AWS Cloud • Linux • Scrum & Agile Methods • DevOps • Systems Design

## ACHIEVEMENTS
- Completed Microsoft Azure Administrator Associate (AZ-104) & Azure Fundamentals (AZ-900) Certification offered by Microsoft.
- Currently an Alpha Level Student Learn Ambassador at Microsoft.
- Open Source Contributor at AppFlowy, CERN Root, Dijkstra, Apprentice and YAFS.
- Over 1400 contributions on GitHub, top 4.4% for repositories contributed to (66).
- Systems Design and Algorithm Design Certified by AlgoExpert.
- Mathematics for Machine Learning Specialization offered by Imperial College London & Completed Accelerated Computer Science Fundamentals Specialization offered by University of Illinois (GoldmanSachs ECHP-23 Program)
- Top 3% of Leetcode by Problems Solved
- 5 star Problem Solving in Hackerank
- Senior Core Member at IEEE-TEMS, Mentor to 30 Junior students.

## LINKS
Github: https://github.com/JRS296
LinkedIn: https://linkedin.com/in/jrs2002/
Website: https://jrs296.github.io/JRS-Studios/
LeetCode: https://leetcode.com/JRS296/
Hackerank: https://hackerrank.com/JRS296
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