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

EXPERIENCE

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.

WINGGIT.INC | Front End Web Developer
Aug 2020 – November 2020 | Bangalore, KA
• Designed and Implemented a fully responsive UI for Winggit's e-commerce website, that handles the reselling of used books.
• Worked Primarily with Javascript, HTML, CSS & Django. Used Figma for UI/UX.
• Delivered website 2 months ahead of schedule, improving predicted sales by 400%.

PROJECTS & OPEN-SOURCE WORK

DIJKSTRA | Founder & Chief 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

FFCS API USING TYPESCRIPT
Github: github.com/JRS296/FFCS-TypeScript-API
• Designed API routes for VIT's FFCS course registration system as part Dyte's technical round hiring process.
• Built using Typescript and tested using PostMan and Jest Testing framework.
• Dockerized and published API environment to Docker Hub.
Tools Used: Typescript, MySQL, NodeJs, ExpressJs, Jest, Docker, Postman

RESEARCH & PUBLICATIONS

AUTOMATED MP3 TAG EDITOR VIA DATA MINING | Researcher & Developer
Jan 2022 – June 2022 | Vellore, TN
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 Machine Learning, whilst automating the entire process.
DOI: 10.4018/978-1-6684-8098-4.ch012

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 • SQL (MySQL & SQLite3)
Frameworks & Technologies
React JS • React-Native • Git & GitHub • NodeJS & ExpressJS • MongoDB • REST API Design • Docker • AKS - Kubernetes • ElectronJs • 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**.
• 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.
• Open Source Contributor at **YAFS - Yet Another Fog Simulator**

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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