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| |  |  | | --- | --- | |  | **Dravia Vemal Murugesan** |     Professional Summary  Seasoned Software Engineer with 8+ years of experience in designing, developing, and optimizing complex software solutions.  **| NodeJS | Rust | C# | Full Stack | Web | Backend | Desktop | Docker |**    Recent Experience  **Byzzer Powered by NielsenIQ:**   * Spearheaded the end-to-end development of "Data on Demand" revolutionizing data delivery for efficiency and scalability. * Architected a Node.js-based query builder for dynamic product team configuration, processed into cost effective SQL queries. * Developed a data aggregation engine, initially in Node.js, later expanded with Rust for performance-critical tasks. * Implemented Rust-based worker nodes for computation-intensive and I/O tasks, communicating via Unix sockets with a master node. * Achieved a processing rate of 400K data cells per second, including post-computation, sorting, weighting, and data masking. * Reduced costs by 75% compared to a third-party solution. * Stream and event emitter-based approach is taken to keep memory within 16GB RAM limit reducing cloud cost. * Compressed 2GB data into a 20MB gzip file by combining partial CSV and reference data in a mixed style for next stage processing. * Optimized memory usage and cloud costs with a Go lang based service generating Excel files directly from byte streams of data file for any pivot style within 32GB RAM of Cloud Run.   **OpenXML-Office:**   * Personal project to master OpenXML and community contribution, resulting in a stable package with two released versions. * Generated over 6.5K files to date, demonstrating real-world usage. * Architected a new Rust-based core system to optimize file creation and manipulation. * Expanding project capabilities with Foreign Function Interface (FFI) for cross-language compatibility with code rewrite in Rust. * Achieved 20% memory improvement and 40% speed increase for Excel operations compared to the previous package in POC benchmark.   **Other Quick Past Summary**:   * Developed a .NET tool to monitor 300+ Windows servers via a consolidated Angular web interface, including a .NET WPF desktop UI library with a grid rendering system.       Work History  NielsenIQ - Senior Software Engineer, *Chennai*  *07/2023 – Current*  NielsenIQ - Software Engineer, *Chennai*  *08/2022 - 07/2023*  Tata Consultancy Service - IT Analyst, *Chennai*  *06/2021 - 08/2022*  Tata Consultancy Service - System Engineer, *Chennai*  *10/2018 - 06/2021*  Tata Consultancy Service - Asst. System Engineer, *Chennai*  *10/2016 - 10/2018* |  | Chennai, India 600071  Chennai, India 600071  +91-9790973678  draviavemal@gmail.com    WEBSITES   * draviavemal.com * linkedin.com/in/dravia-vemal * github.com/DraviaVemal   **PROGRAMMING**   |  |  | | --- | --- | | * TypeScript | * JavaScript | | * Rust | * Go | | * C# | * Java |   **FRAMEWORKS**   |  |  | | --- | --- | | * ExpressJS | * ReatJS | | * .Net | * Angular |   **DATABASE**   |  |  | | --- | --- | | * PostgreSQL | * Firestore | | * BigQuery | * SQLite |   **TOOLS**   |  |  | | --- | --- | | * Git | * Coder | | * WSL | * VS Code | | * Docker | * DBeaver |   **CLOUD PLATFORMS**   |  |  | | --- | --- | | * GCP | * Cloudflare | | * Azure | * AWS |   **HOME LAB**   |  |  | | --- | --- | | * AdGuard (DNS) | * Wireguard | | * Traefik * Syncthing | * Metabase * Glance |   **SOFT SKILLS**   * Adaptability * Adaptable * Flexible * Ethical * Team Player     Education   * Sri Sairam Engineering   B.E (E.E.E), *01/2016,* Chennai   * S A Polytechnic   Diploma (E.E.E), *01/2013,* Chennai    Language   * English * Tamil * Telugu |