









## Sudhakar Ramasamy

Senior Developer (Node.js, Java) + Innovator with 7 Patents at USPTO for Dell having 6+ years of experience in Research, Design, and Development of various Client and Server Applications.

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 <a href="https://patents.google.com?inventor=Sudhakar+Ramasamy">patents.google.com?inventor=Sudhakar+Ramasamy</a>	 <a href="https://stackoverflow.com/users/12167785">stackoverflow.com/users/12167785</a>	

### Work Experience

#### Dell Technologies (Chennai/Bengaluru, India)

- Senior Software Engineer : 07/2022 – Present \*
- Software Engineer 2 : 04/2021 - 06/2022
- Software Engineer 1 : 07/2018 - 03/2021
- Intern : 01/2018 - 06/2018

#### Superfect Solutions (Coimbatore, India)

- Industrial Intern : 06/2017 - 06/2017

### Skills

JavaScript	TypeScript	Node.js	Express.js	Java
Spring MVC	REST API	GraphQL	SQL	NoSQL
Serverless (FaaS)	Kafka	PWA	Electron.js	HTML & CSS

### Projects

**Dell Apex Managed Device Service:** aaS solution to provide managed IT. (Node.js, Cosmos DB, Azure Serverless, Java, Spring, MongoDB, MySQL)

- Led the development of a new microservice utilizing Azure serverless functions with Node.js, TypeScript & Cosmos DB.
- Ensured code quality and consistency by integrating ESLint and Prettier into the repo.
- Developed and integrated new REST APIs using both Node.js and Java Spring for the backend service.

**Cloud-hosted Workspace:** (Electron.js, TypeScript, GraphQL, and Prisma)

- Contributed to the backend development of this proof-of-concept (POC) to provide a unified workspace solution as a service.

**Dell Hybrid Client - Cloud-aggregated File Explorer:** (Node.js, Express, Electron, SQLite, Sequelize, Server-Sent Events, and REST API)

- Led the efforts for a modular integration of cloud storages into a file explorer.

**Dell Hybrid Client - Azure Virtual Desktop Linux Remote Desktop Client:** (Electron.js, Express.js, SQLite, Sequelize, REST API)

- Developed a cross-platform application to list, connect, and work with Azure Virtual Desktop and App sessions.

**Dell Client Info Application:** Electron.js, HTML, CSS, N-API addons with C++, C#.

- Conducted research and development to convert existing OS-dependent code into Node.js add-ons and consolidated various OS-dependent applications into a single cross-platform app using Electron and the Node.js add-ons.

### Education

- B.Tech in Information Technology, (07/2014 - 04/2018), Vellore Institute of Technology, Vellore, Tamil Nadu, India. CGPA: 8.92/10.

### Achievements

- Dell GenNext Game Changers - 2024 Global Innovation Competition - Semi-finalists.
- Dell Inspire Recognition: Received every year from 2018 to 2024.
- Dell Client Solutions Hackathon & Avishkaar (An innovation competition): Participated every year and won awards globally & regionally.
- Admission to the B.Tech IT program under the STARS Scheme at Vellore Institute of Technology.
- Passed the Tamil Nadu Rural Students Talent Search Exam (TRuST) conducted by the Government of Tamil Nadu in 2011.

### Patents - (2 Granted\*, 5 Filed) in USPTO

1. Conferencing solutions for multi-monitor aware immersive collaboration experience: US 18/783490 (07/2024).
2. Managing Desktops at an Information Handling System: US 18/769876 (07/2024).
3. Managing Progressive Web Applications: US 18/671717 (05/2024).
4. Context-Based Intelligent Placement of Files in Aggregated Cloud Storage: US 18/164670 (02/2023).
5. Intelligently Associating a File with an Application: US 18/049520 (10/2022) - 3/12/2024 - 11,928,079\*.
6. Logging in to Modern Workspaces Using Different Cloud Identity Providers and Single Sign-On: US 18/047971 (10/2022).
7. Providing Access to Functionality of a Web Application via Microapps: US 18/047975 (10/2022) - 5/16/2023 - 11,652,871\*.

### Personal Projects

- Tabbed Clipboard History: Cross-platform Clipboard history application (Web & Electron apps from a single codebase) - [sudhakar3697.github.io/clipboard-history](https://sudhakar3697.github.io/clipboard-history)
- node-clipboard-event (npm package): Clipboard change event for Node.js/Electron.js/NW.js - [npmjs.com/package/clipboard-event](https://npmjs.com/package/clipboard-event)
- node-detect-usb (npm package): Detect USB and get mount points/paths - [npmjs.com/package/detect-usb](https://npmjs.com/package/detect-usb)