

# Dwijesh Bharadwaj Kuppahalli Krishnamurthy

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## Education

**The University of Cincinnati, Carl H Lindner College of Business**

**21 Aug 2023 – 24 Dec 2024**

*Master of Science in Information Systems*

*Cincinnati, Ohio*

**Maharaja Institute of Technology, Mysore, India**

*Bachelor of Engineering in Mechanical Engineering (Degree received – Jan 2017), GPA 3.0/4.0*

## Relevant Coursework

- Web Dev with dotNet
- Statistical Computing
- System Analysis and Design
- Data Modelling
- Database Design
- Bigdata Integration
- Financial Accounting
- Data Mining
- Machine Learning and AI

## Experience

**Psinyx Technologies**

**01 Jul 2020 – 22 Dec 2022**

*Software Engineer (Jul 2020 - Dec 2022)*

- Applied the System analysis approach, identified shortcomings in the product's new feature integration and business approach and designed a unique solution by conducting a questionnaire for traders. and by using this data, I designed a statistical model to eliminate redundant processes that consumed more time, money, and work for our Client, thereby improving Premium subscriptions' profit by 32%.
- Led the design and implementation of a trader-focused website using Express.js, Node.js and MongoDB. Empowered users to back-test trading strategies by customising parameters such as entry/exit times, stop-loss orders, and other conditions through an intuitive dashboard.
- Developed a comprehensive solution, from UI/UX design to backend development. Orchestrated seamless integration of time-series data stored in MongoDB, enabling traders to input conditions, trigger calculations, and observe real-time results on the front end.
- Leveraged MongoDB to manage the storage and retrieval of historical trading data. Developed APIs that facilitated complex data processing, extracting insights from user-defined conditions and presenting visualisations that aided traders in making informed decisions.
- Prioritised user experience by crafting an intuitive dashboard for strategy customisation, fostering ease of use and accessibility. Employed efficient coding practices in Express.js and Node.js to ensure optimal website performance, resulting in swift data processing and visualisation rendering.

*Associate Software Engineer (May 2019 – Jun 2020)*

- Worked in a team of 5 developers on Connected Boats and RVs, an IoT-based Web Application Development project.
- Upgraded the NodeJS version on the backend services and Monolithic Architecture to Microservices
- Implemented Typescript for the new services created.
- Optimised query performance of Mongo DB in Microservices using advanced Data Structures.
- Built a Front-End application using ReactJS and Zustand as the state management tool to communicate with the connected device.
- Introduced Bi-directional communication with the connected device as a new feature with the help of AzureIoT Central and Used JEST for integration testing.

## Projects

**GitHub: <https://github.com/dwijeshBharadwaj>**

**Algo-Trading for time-based Straddles | Python, Pandas, and Derivatives Trading**

**Sep 2022**

- Time-based Straddles are very difficult to execute manually and have multiple constraints to manage in real-time. I developed a Python code that can be run to automate the entire strategy of time-based straddles with all the respective constraints and holiday features.

**Live Profit and Loss Telegram Bot | Python and Pandas**

**Jan 2022**

- Traders tend to look at their profit and loss most of the time, which requires multiple logins and many frustrations. Developed a Python code that gives Live P&L updates every 5 minutes in the telegram application.

## Technical Skills

**Languages/Developers Tools:** Java, JavaScript, Typescript, Python, C#, ReactJS, HTML/CSS, Bootstrap SQL, AWS, Azure, IntelliJ and VS Code.

**Technologies/Frameworks:** NodeJS, ExpressJS, Redis, MongoDB, Docker, ASP.NET.