

## DHARIKA KAPIL

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### EDUCATION

#### Stevens Institute of Technology

Master of Science in Computer Science

Hoboken, NJ, USA

May 2019 - May 2021

#### Banasthali University, Rajasthan, India

Bachelor of Engineering in Electronics & Instrumentation

Jaipur, RJ, India

May 2013 - May 2017

### EXPERIENCE

#### MarketAxess | Software Developer

December 2022 - Current

- Achieved a 50% performance improvement in the Trading system by implementing a **Single Threaded Thread Pool** using **Executor Service**, effectively replacing traditional **multithreading** methods.
- Migrated **JMS** to **Kafka**, orchestrating seamless data processing and persistence for optimized application performance.
- Led end-to-end integration of **SQL** Tables in **Oracle**, facilitating **CRUD** functionality for **5 screens** through application endpoints, and delivered top-tier production support with rapid response times for issue resolution.
- Streamlined testing procedures with **Spring Boot** application, automating database comparisons based on different **SQL** queries and sending email alerts for query filter results.
- Enhanced grid display in user interface by implementing advanced **Ag-grid** techniques and packages, resulting in a remarkable 30% improvement in performance and customizable appearance with **AngularJS**.
- Waved together the capabilities of **Maven**, **Gradle**, **Apache**, and **Sonic** technologies to engineer **Java** applications.

#### Instinet Incorporation a Nomura Company | Full Stack Developer

July 2021 – December 2022

- Implemented **React virtualization** to optimize rendering and achieved a 60% performance improvement for screens handling more than 10,000 rows of data.
- Efficiently handled **CRUD** operations for **20 screens** on Frontend and Backend, managing over **4000 rows** of data with seamless precision.
- Delivered **20%** increase in user experience and a **30%** reduction in errors by implementing **form field validations** across all grids to handle diverse data types effectively.
- Dramatically improved performance by utilizing memorization to optimize functional component rendering, leading to a substantial percentage increase in application responsiveness.

#### Instinet Incorporation a Nomura Company | Web Developer Intern

June 2020 – December 2020

- Streamlined grid orientation through the implementation of **React Hooks**, **Higher-Order Components (HOCs)**, and **Redux**, enhancing application efficiency and maintainability.
- Demonstrated a comprehensive grasp of the disparities between **functional** components and **class** components.
- Developed internal corporate website and authored reliable test cases with **Mocha**, **Chai**, and **Gherkin**, ensuring high-quality performance.

#### Tata Consultancy Services, KeyBank | Software Developer

October 2017 - July 2019

- Utilized **MVC**, **View Model**, **Model Binding**, **OOP**, and Asynchronous Programming (**async/await**) to optimize applications with a 40% response time reduction.
- Attained 99% data integrity and superior user experience with ASP.NET MVC, seamless **CRUD** operations, meticulous validations, and efficient Entity Framework integration.
- Remediated applications from Windows 7 to 10 using ASP.NET, ensuring heightened performance and improved security compliance.

### SKILLS

Programming Languages:	JavaScript, <b>Java</b> , C++, C#, ASP.Net, Python, Typescript, Knex.js, HTML, CSS, R
Databases:	Oracle, MySQL, PostgreSQL, Microsoft Access, MongoDB (NoSQL)
Project Management Techniques:	Agile Methodologies, Scrum, Sprint Planning, Waterfall
Programming Frameworks:	<b>ReactJs</b> , NodeJS, <b>AngularJS</b> , KnexJS, Spring Boot, Spring MVC, <b>Jenkins</b> , Jfrog, Git, <b>RESTful APIs</b>
Certificates:	Diploma ASP.NET, <b>AWS Cloud Practitioner</b> , <b>Solution Architect</b> , <b>JAM</b> , <b>Technical Essential</b>
Tools:	AWS, Bitbucket, MobaXterm, Checkmarx, MSP (Managed Service Provider), Visual Studio, JIRA, <b>Gitlab</b> , Github, Gitbash, Bitbucket, Confluence, IntelliJ, Eclipse, VirtualBox, Team Foundation Server

### PROJECTS

#### AutoPay

August 2019 – May 2021

- Created Auto payroll website for small business using Node.js, JavaScript, CSS and AJAX
- Implemented all **CRUD** operation for whole website.
- Created different documents and records in **MongoDB** for user data.
- Improved the security of the application by protecting against **Cross-Site Scripting**, **SQL Injections**.