

# Kiran Ramachandran

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## EDUCATION

### Indian Institute of Technology

Bachelor of Technology, Mechanical Engineering

Mumbai, India

Jun 2002 - May 2010

### Scaler Neovarsity-Woolf University

Master of Science, Computer Science

Bengaluru, India

Aug 2022 - Aug 2024

## WORK EXPERIENCE

### Software Developer

Freelance

Mar 2021 - present

Mumbai, India

- Developed automated trading applications that supported trade execution from multiple strategies at multiple brokers.
- Provided automation solutions for proprietary traders that helped them increase their strategy deployments by a factor of 10.
- Github LINK to a sample project: <https://github.com/KiranACD/Trading-Bot>

### Systematic Trader

Self Employed

Mar 2011 - present

Mumbai, India

- Developed a risk premia harvesting strategy in the Indian stock market that helped to capture market returns due to the equity risk premium. The strategy used Nifty and Banknifty futures to capture these returns.
- Developed a portfolio of seasonality-based strategies in the Indian stock market. The strategy used Nifty and Banknifty options to exploit these seasonality based patterns.

## PROJECTS

### Resume Builder

React, jsPDF

Mar 2024 - Apr 2024

[LINK](#)

- Used React to develop a webapp where a user can create an ATS-friendly resume and download it as pdf.
- Implemented a pdf preview feature which can be used to preview the resume as it is being made.

### E-Commerce Backend

SpringBoot, Spring Security, Redis, Kafka, Flyway Migration, MySQL, Elasticsearch

Dec 2023 - Feb 2024

[LINK](#)

- Architected a Microservices based E-Commerce platform with support for core functionalities like Product Catalog, Payment Gateway Integration, Order Service, Notification Service etc.
- Implemented search functionality using Elasticsearch for efficient discovery of products.
- Optimized response time of APIs from ~500 ms to ~50 ms by effective usage of Caching of static data using Redis Cache.
- Implemented an event-driven email service to allow sending emails at large-scale from different services in the platform.
- Implemented a user microservice for signup, login, and authentication/authorization using Spring Security OAuth2.
- Implemented support for online payment by implementing payment service where multiple payment service providers, like Stripe Payment Gateway, can be integrated.

### Medium Clone

NextJS, Tailwind CSS

May 2024 - Jun 2024

[LINK](#)

- Developed a feature-rich blogging platform using Next.js, implementing dynamic routing, server-side rendering, and API integration to deliver a seamless user experience.
- Designed and optimized a responsive UI/UX with Tailwind CSS, enhancing the platform's accessibility and user engagement across various devices.

## SKILLS

**Languages:** Python, Java, Javascript, HTML/CSS, SQL

**Frameworks:** Springboot, Nodejs

**Developer Tools:** Git, Docker, AWS, VSCode

**Libraries:** React, Pandas, NumPy