

# ISHA PATRO

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## PROFESSIONAL PROFILE

Full-stack developer with a mix of tech skills and financial know-how. I've progressed from intern to Software Engineer II, working on mortgage-backed securities and trading platforms. I approach every project with curiosity and determination, excelling in high-stress situations. With a keen interest in innovation and love for finance, I'm always seeking new ways to advance the fintech landscape.

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## EXPERIENCE

### J.P Morgan Chase & Co.

#### Software Developer Engineer - II

Jan 2024 - Current

- Lead development initiatives and collaborate directly with traders to gather requirements, provide technical insights, and secure signoffs, ensuring solutions meet the evolving needs of the trading floor.
- Worked on the Mortgage Matrix tool, gaining a broader perspective on mortgage backed securities and enhancing the integration between technical development and real-world trading operations.

#### Software Developer Engineer - I

Aug 2021 - Jan 2024

- Developed and enhanced the Trade Reporting and Compliance Engine (TRACE), focusing on accurate trade reporting and regulatory compliance.
- Implemented improvements to streamline data processing and reporting workflows, contributing to more efficient and compliant trade operations.

#### Software Developer - Intern

Jan 2021 - Jul 2021

- Created a JIRA ticket management app that streamlined task tracking and resolution, leading to enhanced collaboration and efficiency across teams at JP Morgan.

### Amazon

#### ACMS Intern

May 2020 - Jun 2020

- Designed wireframes and contributed to the full lifecycle of a responsive Appointment Scheduler website, focusing on user needs and goals.
- Prepared the website for integration with Chime and implemented best practices to ensure a seamless user experience and robust functionality.

### Octathorpe Web Consultant

#### Data Analyst Intern

Apr 2019 - Jul 2019

- Procured and analyzed data from diverse primary and secondary sources to extract insights and identify usage trends for informed business decisions.
- Tracked Conversion, Retention, and Monetization metrics to provide a comprehensive analysis of business performance.

### Collpoll

#### Data Engineering Intern

Apr 2018 - May 2018

- My role included extracting and working with large amounts of structured and unstructured data. I also focused on understanding key elements of product development and implementing strategies to expand the user base.

## PROJECTS

### Minted Wealth [🔗](#)

- A platform providing real-time stock market data, tracking users' financial journeys, and empowering informed financial decisions.

### **Cloud Generator - CGOR**

- Designed an autonomous floating buoy system for oil spill cleanup and cloud formation acceleration.
  - Won 1st prize at Engineering Clinics Expo FALL-2018.

### **Autonomous humanoid robot**

- Created a biped robot powered by Amazon's Alexa with custom skills using Raspberry Pi and Arduino.
  - Won 1st prize at Engineering Clinics Expo FALL-2017.

### **Fed Rate Cut 2020 vs 2024** [🔗](#)

- Analysed the contrasting impacts of Federal Reserve rate cuts in 2020 and 2024 on markets, investor sentiment, and economic stability.

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## PUBLICATIONS

### Unlocking Financial Wisdom: Building Knowledge Graphs from Investopedia [🔗](#)

- Built a financial knowledge graph by extracting, processing, and visualizing terms and definitions from Investopedia, integrated into Obsidian for interactive exploration.

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## BLOGS

### Unlocking the Power of Obsidian Vaults with Python: A Simple Guide to Supercharge Your Note-Taking! [🔗](#)

- The medium blog explores how to optimize note-taking efficiency using Python scripts in Obsidian, highlighting methods to automate file management, create linked notes, and enhance overall productivity through streamlined data organization.

### Breaking Down the 32nd Bond Price Format [🔗](#)

- Explained the complexities of the 32nd bond price format, breaking it down for clearer understanding and practical application

### Fed Slashes Rates: What a Half-Point Cut Means for You and Your Wallet [🔗](#)

- Explained the real-world impacts of a 50 basis point rate cut by the Federal Reserve on loans, savings, investments, and the broader economy in an accessible and relatable way.

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## EDUCATION & CERTIFICATIONS

### **Bachelor's in Computer Science**

#### **Vellore Institute of Technology, AP**

Aug 2017 - Jul 2021

- Completed 156 credits with an overall CGPA of 8.65

### **Senior Secondary Education**

#### **Khalikote University**

Aug 2015 - Jun 2017

- Scored 75% in Science in the CHSE board
- Received a laptop for good marks under the Biju Yuva Sashaktikaran Yojana

### **High School Education**

#### **D. A. V Public School**

Aug 2003 - Jun 2015

- Completed high school education under the CBSE board, achieving a commendable CGPA of 9.6

## SKILLS

- Python
- React
- AG Grid
- HTML
- CSS
- Javascrpt
- Machine Learning
- Data Mining
- Tableau