

AVI JAISWAL

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Education

University of Southern California

Aug 2020 – May 2025

BSc in Applied and Computational Mathematics, MS in Mathematical Finance; GPA: 3.90/4.0

Los Angeles, CA

Relevant Coursework

- Quantitative Modeling
- Data Structures
- Mathematical Statistics
- Time Series Analysis
- Financial Informatics
- Stochastic Calculus
- Probability Theory
- Portfolio Management

Experience

JP Morgan Chase

Jun 2023 – Aug 2023, Jun 2024 – Aug 2024

Internal Audit Intern

Jersey City, NJ

- **Business Understanding:** Worked on the Corporate Investment Banking Securities team in 2023 and Asset Wealth Management Operations team in 2024 to learn the workflow of internal audit in different lines of business.
- **Control Testing:** Evaluate, test and report on the adequacy and effectiveness of the control environment using Excel and communicate audit results and issues in a concise, persuasive manner to management, both verbally and in writing.
- **Stakeholder Communication:** Built key relationships with stakeholders and colleagues, establishing effective teamwork, innovative thinking and a culture of engagement while adding value.
- **Control Environment Development:** Finalize audit findings using critical thinking and analytical skills to recommend and implement suggestions to improve the control process for effective future testing.

Saankhya Labs

May 2022 – August 2022

Back End Developer Intern

Bangalore, India

- **Automation Framework Support:** Improved the 5G automation framework for one of India's leading 5G technology pioneers by independently designing and implementing back-end libraries in Python and C++.
- **Client-Server Communication:** Established secure client-server communication between users across the company network and implemented API's to engineer an interface to perform operations on the client from the server.
- **Manipulating Windows Services:** Incorporated the win32all package to control and configure Windows services from the client, using object-oriented programming to institute this new feature into the company mainframe.

Square Off Chess Application

May 2019 – August 2019

Programming Intern

Bangalore, India

- **Product Evaluation:** Enhanced the game-play of the Square Off Grand Kingdom Chess Set by testing its product features and conveying relevant user feedback to app developers.
- **Rating Change Calculator:** Integrated this new feature into the app by applying my chess subject matter expertise to proactively write a program in Python which calculates changes in player ratings based on game results.
- **Player BIOS Search Feature:** Formulated a database of players to facilitate easy information access and data analysis via name, rating and nationality amongst other parameters.

Projects

VIX and Inflation Research Paper | Python

April 2024

- Used Vector Autoregressive methods and time series data to investigate the relationship between the VIX stock price index and inflation. Link: <https://github.com/avi-jaiswal/vix>

Simplified Online Retail System | C++

September 2022

- Devised a program that supports an online retail system with limited products and parameters. Link: <https://github.com/avi-jaiswal/Online-Retail-System>

Distracted Driver Test | Python

July 2019

- Built, trained and tested a Neural Network model to detect distracted drivers successfully using 3D image recognition and machine learning.

Technical Skills

Languages: Python, C++, R, SQL

Tools: Linux, Excel, Matlab, Github

Chess: US National FIDE Under-18 Rank: 147 (2019), FIDE Rating: 1832

Leadership / Extracurricular

ICAJR Chess Tournament

May 2018 – Aug 2018

Chief Tournament Organizer

Bangalore, India

- **Event Management:** Developed leadership and teamwork skills by successfully co-directing the organization of 3 tournaments in Bangalore, attracting 100+ players each time, raising a net profit of USD 800.