

Arjun Vaish
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EDUCATION

University of Washington, Seattle (UW)

Expected Graduation June 2026

B.S. in Electrical and Computer Engineering, Junior

Minor: Computational Finance and Risk Management

Awards: Recognized by the **Computational Finance** department for developing an interactive educational website on advanced option trading strategies (2024), ranked 3rd out of 93 teams in the **AIAA Design Build Fly Competition** (2023), Finalist in **NASA's** International Space Settlement Design Competition (2022). Awarded Rookie Game Changer Award **FIRST** Robotics Competition (2022).

ACTIVITIES & EXPERIENCE

VP of Administration & Operations | Algorithmic Trading Club | UW

March 2024 – Present

- Secured an industry partnership with **Quant Connect** and hosted speakers from **Jane Street** on probability theory, high-frequency trading strategies, and market making.
- Developed a tool using **ReactJS** to visualize trading algorithms and performance metrics, increasing average user engagement time from 7 to 15 minutes per session.

Research Associate | Sensors, Energy, and Automation Laboratory | UW

September 2023–November 2023

- Developed and maintained dynamic web applications using **JavaScript** to facilitate the distribution of research on sensor technologies and energy systems.
- Integrated real-time sensor data into web applications, offering researchers up-to-date visualizations and analytics, thereby reducing data processing time by 3 hours per week.

Front End Engineering Intern | Pan Communications | New Delhi

June 2023 – August 2023

- Extracted and analyzed database data utilizing **Python** and **Pandas**, then effectively presented results to board members and directors with enhanced styling and formatting using **CSS**.
- Collaborated with cross-functional teams to design, implement, and test new **Three.js** features for web applications.
- Assisted in optimizing website performance, resulting in a reduction of load times from 2 to 0.4 seconds.

PERSONAL PROJECTS

3D Marble Race Game using **Three.js** and **ReactJS**

June 2024 – July 2024

- Developed a 3D marble race game using **React-three-fiber** and **WebGL** to create an engaging interactive experience.
- Implemented complex game mechanics such as marble physics, obstacle interactions, and real-time score tracking.
- Enhanced user experience with responsive controls and intuitive gameplay, resulting in an average of 50 daily visitors and increasing engagement by 40%.

Website on Advanced Option Strategies with Real-Time Market Analysis

March 2024 – April 2024

- Developed a website using **ReactJS** and **Django** on advanced options trading strategies, and trade idea generation.
- Integrated **Trading View** widgets for real-time market analysis, increasing the average session duration from 2 to 5 minutes.

ADDITIONAL INFORMATION

Languages: English (fluent), Hindi (fluent)

Sports: Basketball (high school senior team)

Computer: Proficient in PowerPoint and Word

Interests: Formula 1, Options Trading, Long Short Equity Funds, Calisthenics

Certifications: Bloomberg Market Concepts

Additional Education: National University of Singapore, Summer School (2019)