Jeffrey Josh Jone Rajarupan

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Education

The University of Texas at Dallas **Expected Graduation: May 2030**
Bachelor of Computer Science | Minor Business Intelligence & Analytics

- **CS^2 Honors Student | GPA: 4.0/4.0**
- **Courses:** Computer Science II, Programming with MATLAB, Matrices & Vectors, Professional Communications, Probability & Statistics, Business & Finance, AI in Business, Financial Accounting

Collin College **August 2024 - December 2026**
Non-degree Seeking, Dual-credit

Lebanon Trail High School **August 2022 - May 2026**

- **GPA:** Unweighted 3.205 / 4.0 | Weighted 4.286 / 6.0
- **Relevant Coursework:** AP Computer Science, AP Physics 1 & C, AP Statistics, AP Calculus AB
- **Test Scores:** SAT 1590

Work Experience

Business Professionals of America **May 2024 – May 2026**
Category Director

- Manage all computer-related and 300s competitive events, assisting regional, state, and national qualifiers with curriculum, prep materials, and evaluation rubrics.
- Guide students through algorithmic problem-solving strategies used in BPA competitions.

Kolly.ai **August 2023 – Present**
Development Lead

- Spearhead backend and ML development for an AI learning platform serving thousands of students.
- Oversee a multi-developer team and manage architecture decisions and feature sprints.
- Coordinate with other managers on launching deliverables and approving quarter budgets.

Independent Research **June 2023 – Present**
Researcher

- Simulated biomechanical interactions between spinal tumor growth and cardiovascular strain using computational modeling and numerical methods.
- Conducted long-term research culminating in DRSEF recognition as an ISEF alternate. Currently preparing findings for journal submission.

UC Berkeley and Stanford University Research Project **September 2024 – May 2025**
Website Project Lead and Research Assistant
Remote

- Led development of the Neuroscope web platform using React and Node.js to present neurodiversity research and educational resources.
- Built backend services, data structures, and interface components that support information retrieval, outreach materials, and researcher workflows.

Tutor.com / Varsity Tutors / GoStudent / Wyzant **August 2021 – May 2025**
Tutor

- Provided 450+ hours of instruction across Math, Physics, Computer Science, and Programming at middle school through university levels.

Honors / Awards

Programming

Business Professionals of America (BPA)
C++ Programming:

- National Champion (#1, 2025)
- State: #2 (2026), #6 (2025)
- Regional: #1 (2024 & 2026), #3 (2025)

Web Application Team (2025):

- Prelims: #1
- Finals: #6

USA Computing Olympiad (USACO)

- Gold Division, ranked #1 overall (shared) in the March Open 2025
- Achieved perfect in-competition promotions through Bronze and Silver divisions

George Fox High School Programming Contest (2025)

- 1st place out of 40 teams with the best ratio of attempts to solutions, 30/11

STEM

American Mathematics Competition (AMC 12B, 2025)

- Top 1% nationally among 100,000 competitors with a score of 145.5 / 150
- Awarded Distinguished Honor Roll and AIME Qualification

Dallas Regional Science and Engineering Fair (DRSEF)
Biology Category:

- Placed 2nd with Honorable Mention for research on simulations of spinal tumor links to heart failure with computational modeling
- Qualified as 3rd alternate for ISEF

Twelfth Annual Joan and Arnold Seidel Griffith Observer Science Writing Contest
Griffith Observatory

- Earned Distinction (Top-tier finalist) for an analysis of the real-world feasibility of cinematic space technology

Finance / Business

University Interscholastic League (UIL) Accounting (2024)

- Regional: Team #1, Individual #11
- State: Team #7, Individual #17

Projects

Autonomous Drone Navigation System

- Designed a reinforcement-learning navigation model capable of real-time path planning using LiDAR.
- Implemented onboard control software in C++/ROS.
- Built a custom simulation environment in Gazebo to train and evaluate autonomous behaviors under variable wind, terrain, and obstacle conditions.

Distributed Communication Protocol for Disaster Zones (Local)

- Engineered a peer-to-peer networking protocol using UDP broadcasts and dynamic routing tables to maintain connectivity without cell towers.
- Developed embedded firmware for Raspberry Pi/ ESP32 nodes enabling packet relaying, GPS stamping, and encrypted offline messaging.

Certifications

AWS Certified DevOps Engineer, CompTIA Security+, Microsoft Power BI Data Analyst, CSCP, Salesforce Certified Marketing Cloud Engagement Developer

Volunteering

Community Service

- Feed My Starving Children (Richardson) - 200+ Hours
- Our Lady of Angels Catholic Church Allen - 100+ Hours
- Perot Museum - 175 Hours, Awarded the Presidential Volunteering Service Award

Academic Tutoring

STEM Tutor (Unpaid) — Discord, WhatsApp, Telegram
July 2020 — Present

- Provided long-term academic tutoring in Math, Physics, CS, and programming to 20+ students
- Tutored 500-700 hours over five years

Technical Skills

Programming Languages: C++, Python, HTML, JavaScript, TypeScript, Java, Julia, SQL
Frameworks & Libraries: React, Node.js, Express, MongoDB/PostgreSQL
Tools & Platforms: Git, Docker, GitHub Actions, AWS, Linux, Office
Areas of Expertise: Machine Learning, Full-Stack Development, Systems Programming, QA Analysis

Interests

Computer Science: AI/ML, Quantitative Finance, Systems Programming, Software Engineering
Science & Math: Computational Physics, Astronomy, Applied Mathematics
Sports & Fitness: Boxing, Soccer, Calisthenics, Mountain Climbing, Swimming
Creative: Sketching, Music, Carpentry, Video Editing