Gavin Dhanda

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EDUCATION

BROWN UNIVERSITY — Providence, RI
Pursuing an ScB in Computer Science and an AB in Business Economics; Cumulative GPA: 4.0/4.0 — Expected May 2026
Relevant Coursework: Algorithms; Computer Vision; Computer Graphics; Econometrics

KENT DENVER HIGH SCHOOL — Englewood, CO
Valedictorian (4.5 GPA); Cum Laude Society; National Merit Scholar; AP Scholar with Distinction — Aug 2017 - Jul 2022
Vex Robotics – 2nd Place 2021 World Championship, 3x Colorado State Champions

WORK EXPERIENCE

MORGAN STANLEY — New York, NY
Summer Technology Analyst — Summer 2025
- Incoming software engineer on the Application Development track for the summer of 2025

BROWN COMPUTER SCIENCE DEPARTMENT — Providence, RI
Undergraduate Teaching Assistant — Sep 2023 – Present
- CS 1230 (Computer Graphics): 2D Raster Graphics, Realtime 3D Ray-Tracing in OpenGL
- CS 0200 (Data Structures & Algorithms): Runtime analysis, social impacts, OOP & Functional Programming
- CS 0150 (Intro to OOP): Introductory project-based course built on Java through JavaFX

COLUMBIA UNIVERSITY ECONOMICS — New York, NY
Research Assistant for Professor Dan Björkegren — May 2024 – Sep 2024
- Researched the impacts of AI and LLMs as an alternative to Google through an RCT in Sierra Leone
- Wrote Python scripts for data processing with large-scale API integration, automated web scraping, etc

VOLLEY AUTOMATION (Automated Parking Start-Up) — San Francisco, CA
Software Engineer Intern — May 2023 – Sep 2023
- Designed an integrated, computer-vision driven, gantry system with Arduino (C++) and Python
- Trained a YOLO-v7 Neural Network with Luxonis vision cameras to spatially detect unique targets

POWDER METALLURGY & X-RAY LAB at B.U. — Boston, MA
Research Assistant for Professor Vinod Sarin — Dec 2020 – Nov 2021
- Conducted literature review of aluminum nitride coating, used in industrial semiconductor production

LEADERSHIP and ACTIVITIES

BROWN FORMULA RACING CLUB — Providence, RI
Mentor and Impact Attenuator Lead — Sep 2022 – Present
- Project Lead for the Impact Attenuator – researching, testing, and machining for FSAE competition
- New-Member Mentor – guiding new members on small design projects to sustain future club success

BROWN INVESTMENT GROUP and QUANT TRADING CLUB — Providence, RI
Committee Member — Sep 2022 – Present
- BIG: Managing the investments of a fund exceeding $200,000 through in-depth proposals and voting
- Quant: Involved in the education, research, and applications of diverse quant trading techniques

BROWN-RISD GAME DESIGN CLUB — Providence, RI
Programming & Sound Design Teams — Sep 2022 – Present
- Developing complex story-based games in Unity, working in small teams over the course of each semester

ADDITIONAL

Languages: Fluent in English; Conversational Proficiency in Spanish
Technical Skills: Advanced in Python, Java, C++, Javascript, React, HTML/CSS; Proficient in C, MATLAB, SQL