

Gavin Dhanda

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gdhanda-portfolio.vercel.app

EDUCATION

BROWN UNIVERSITY

Pursuing an ScB in Computer Science and an AB in Business Economics; Cumulative GPA: 4.0/4.0
Relevant Coursework: Algorithms; Computer Vision; Computer Graphics; Econometrics

Providence, RI
Expected May 2026

KENT DENVER HIGH SCHOOL

Valedictorian (4.5 GPA); Cum Laude Society; National Merit Scholar; AP Scholar with Distinction
Vex Robotics – 2nd Place 2021 World Championship, 3x Colorado State Champions

Englewood, CO
Aug 2017 - Jul 2022

WORK EXPERIENCE

BROWN COMPUTER SCIENCE DEPARTMENT

Undergraduate Teaching Assistant

Providence, RI
Sep 2023 – Present

- Office hours, mentor meetings, weekly lab, grading projects and exams, and designing course materials
 - 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

VOLLEY AUTOMATION (Automated Parking Start-Up)

Software Engineer Intern

San Francisco, CA
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

RESEARCH

COLUMBIA UNIVERSITY ECONOMICS

Research Assistant for Professor Dan Björkegren

New York, NY
May 2024 – Present

- Researching 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

POWDER METALLURGY & X-RAY LAB at B.U.

Research Assistant for Professor Vinod Sarin

Boston, MA
Dec 2020 – Nov 2021

- Conducted literature review of aluminum nitride coating, used in industrial semiconductor production

LEADERSHIP and ACTIVITIES

BROWN FORMULA RACING CLUB

Mentor and Impact Attenuator Lead

Providence, RI
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

Committee Member

Providence, RI
Sep 2022 – Present

- Managing the investments of a fund exceeding \$200,000 through in-depth proposals and voting

BROWN-RISD GAME DESIGN CLUB

Programming & Sound Design Teams

Providence, RI
Sep 2022 – Present

- Developing complex story-based games in Unity, working in small teams over the course of each semester

ADDITIONAL

Technical Skills: Advanced in Python, Java, C, C++, Javascript, React, HTML/CSS; Proficient in MATLAB, SQL

Languages: Fluent in English; Conversational Proficiency in Spanish

Education: Harvard CS50 Course – Software design in C, Python, Javascript, SQL, HTML, and CSS