

JUSTIN SHIEH

(201)-301-4325 | New York, NY, 10012 | justin.shieh@stern.nyu.edu

EDUCATION

New York University, Leonard N. Stern School of Business

New York, NY

B.S. in Business, Technology, and Entrepreneurship and B.A. in Computer Science (Courant Institute of Mathematical Sciences)

Expected Dec 2028

- **GPA:** 3.922/4.00 | **Relevant Coursework:** Computer Systems Organization, Projects in Programming & AI, Microeconomics
- **Honors/Activities:** BTE Design Sprint (1st), FTI Consulting Case (2nd), Entrepreneurial Exchange Group (Startup Team)

Northern Highlands Regional High School

Allendale, NJ

High School Diploma, Salutatorian

Sep 2021 - Jun 2025

- **Weighted GPA:** 4.7721; **Unweighted GPA:** 4.0 | **Relevant Coursework:** Differential Equations, Discrete Math, AP Physics C
- **Honors/Activities:** CS Club President, DECA (Business) Club President, CS/Business/Science/Math Senior Award Winner

PROFESSIONAL EXPERIENCE

Damodaran Bot

New York, NY

Lead Software Engineer

Nov 2025 - Present

- Refactored FastAPI backend and Next.js frontend to enable rapid feature development and improve overall system maintainability
- Optimized DCF calculation engine and agentic architecture to improve accuracy and consistency across model output and results
- Supported 20 undergraduate researchers by building research tools, resolving technical issues, and leading module development

Northern Highlands Regional High School

Allendale, NJ

AP Physics C and AP Computer Science A Teacher Assistant

Sep 2024 - Jun 2025

- Created a student TA position and worked with Physics C and CS instructors to build lessons and align curriculum to standards
- Supported 100+ students in class and after school, enabling instructors to focus on higher-order instruction across both classes
- Helped achieve a 100% AP Physics C pass rate and 4/5 average by reinforcing instruction and supporting student comprehension

EXTRACURRICULAR ACTIVITIES

Entrepreneurial Exchange Group

New York, NY

Startup Team Member

Feb 2026 - Present

- Building and scaling a healthtech startup app as a founding team member, applying agile methods and lean product development
- Conducted 20+ user interviews to validate product hypotheses, refine the value proposition, and guide go-to-market strategy
- Studied and applied venture research methods and startup strategies through structured team exercises and hands-on curriculum

Northern Highlands DECA

Allendale, NJ

President of Operations, VP Compliance

Oct 2022 - Jun 2025

- Wrote Python and Google Apps Script programs to automate workflows and reduce manual overhead across the DECA chapter
- Parsed and transformed large volumes of member data using Google Sheets and Apps Script to improve chapter organization
- Competed in Marketing and Business Services events; qualified for ICDC in Orlando, FL (2023, 2025) and Anaheim, CA (2024)

Education for All

Allendale, NJ

President

Sep 2021 - Jun 2025

- Served as President for 2024–25, leading a cross-school tutoring program connecting Northern Highlands and Paterson students
- Led volunteer matching across both schools based on schedule, subject expertise, and interests to maximize tutoring effectiveness
- Tutored 50+ hours in Math, Physics, and ELA, driving measurable report card and letter grade improvements for multiple students

PROJECTS

Paper2Notebook | Open AI Agents SDK, FastAPI, Python, Next.js, Typescript, Shadcn

New York, NY

Technical Co-Lead

Sep 2025 - Dec 2025

- Developed a full-stack application that parses research papers and generates reproducible Jupyter notebooks to validate claims
- Engineered agentic pipeline with OpenAI Agents SDK and FastAPI to extract claims, generate test plans, and execute in VMs
- Selected to demo at NYU's end-of-semester research showcase, presenting the full agentic pipeline to a panel of 5+ professionals

Physics Quiz Game | Next.js, Typescript, Material-UI, Vercel

Allendale, NJ

Founder

May 2024 - Jun 2025

- Built full-stack TypeScript/Next.js web app enabling students to practice E&M concepts and teachers to create custom diagrams
- Scaled to 200+ users and 2,000+ page views through targeted outreach in private AP Physics teacher and student communities
- Designed interactive diagram generation tools to visualize E&M fields, improving usability and engagement for student practice

SKILLS & INTERESTS

- **Skills:** Capital IQ, AI Agents, Google ADK, Python, FastAPI, TypeScript/JavaScript, Java, C#, Next.js, Supabase, Redis, Arduino
- **Interests:** Travel Planning, Aviation, Snowboarding, Pickleball, Hiking, Cycling, Baking, Home Labs, Wendover Productions