

# SHOUQI HAN

Founder · Builder · Researcher

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## PROFILE

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High school junior and serial founder building at the intersection of education, AI, and economics. Co-founder of AGrader.ai (400+ users; assets acquired by RevisionDojo / OnePrep), Founding CTO of BizBuild (200+ chapters, 90,000+ students reached), CTO of the Green Guru Project (international 501(c)(3) advancing three UN SDGs), and founder of Brightlaunch (30+ websites delivered to Orlando small businesses and nonprofits). Independent researcher with a working paper on circular investment networks in the AI industry, published on SSRN. Cross-cultural background spanning China, Rwanda, Zimbabwe, and the United States.

## EDUCATION

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### Windermere Preparatory School

*Expected Graduation: May 2027*

Windermere, FL · Full IB Diploma Candidate · 4.0 unweighted GPA

- **HL:** Physics, Computer Science, Mathematics, Economics · **SL:** English, Spanish
- Coursework grade record: A in every class to date
- **Extended Essay (Economics):** "To what extent have economic sanctions affected Russia's GDP growth and inflation since 2022?"

### University of Chicago — Pre-College Summer Session

*Summer 2026*

Statistics for Social Sciences (SOSC 20112) · Online

- Eligible for **Summer Session Early Notification (SSEN)**, UChicago's binding ED0 admissions pathway

## ENTREPRENEURIAL EXPERIENCE

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### AGrader.ai — Co-Founder

*2023 — Present*

AI-Powered AP & IB Essay Grading Platform · BASH LLC (Florida)

- Co-founded and scaled an agentic AP/IB essay grading platform to **400+ active student users** across 7 AP subjects, with a hand-crafted bank of 385 MCQs and 300+ essay prompts.
- Architected the full stack: Next.js, TypeScript, Tailwind, MongoDB, Supabase, Prisma, Render, and the OpenAI API.
- Designed an **agentic essay grading pipeline** with rubric-aligned multi-pass review; filed a provisional patent on the system.
- Negotiated a **content-asset acquisition by RevisionDojo / OnePrep** (Y Combinator-backed); structured the deal to transfer the practice-test library and MCQ pipeline while retaining the platform, brand, and user base, which continue to operate independently.
- Built and managed a paid TikTok ad campaign (~\$525, 3-week sprint) targeting AP/IB students during exam season; deployed the TikTok Pixel with a CompleteRegistration conversion event.

### BizBuild — Founding Chief Technology Officer

*2024 — Present*

501(c)(3) Student Entrepreneurship Nonprofit

- Built and own the entire technical stack for a nonprofit reaching **200+ school chapters and 90,000+ students**.
- Led the full Next.js redesign of bizbuild.org with Tailwind CSS 4.1, AOS animations, and Spline 3D elements.
- Designed the BizBuild Student Business Directory, turning the chapter network into a discoverable ecosystem of student-founded ventures.
- Co-designed the **International Entrepreneurship Olympiad (IEO)**, BizBuild's flagship competitive program.

### Brightlaunch — Founder

2024 — Present

*Free Web Development for Orlando Small Businesses & Nonprofits*

- Founded a nonprofit web development service that has delivered **30+ free production websites** to small businesses and nonprofits across the Orlando area.
- Personally handle design, development, deployment, basic SEO, and ongoing maintenance for every client.
- Built the in-house tooling and Brightlaunch site itself in Next.js; sourcing clients organically through Facebook groups, Nextdoor, and word-of-mouth referrals.

### Green Guru Project — Chief Technology Officer

2024 — Present

*International 501(c)(3) Sustainability Nonprofit · greenguruproject.com*

- Serve as CTO of a student-led international nonprofit with **13 team members across 4 continents**, advancing three UN Sustainable Development Goals (Zero Hunger, Decent Work & Economic Growth, Climate Action).
- Support program operations that have rescued **1,700+ pounds of food** through the Panera Day-End Dough Nation partnership and packed 100+ toiletry kits for the Neighborhood Fridge.
- Helped scale the **Personal Finance Project**, a free virtual financial literacy program covering taxes, ESG investing, and budgeting.

## RESEARCH & PUBLICATIONS

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### AI Bubble Map — Independent Researcher

2025 — 2026

*Working paper, SSRN*

- Authored an independent economics paper analyzing **circular investment networks in the AI industry**, mapping 90 deals across 28 AI, cloud, and semiconductor companies (2022–2025).
- Designed a three-metric framework — **Loop Score, Cycle Score, and Hub Score** — identifying 10 two-party investment loops and 178 multi-party cycles, with NVIDIA emerging as the top-ranked hub.
- Validated findings using a **configuration model (null model)** with ~1,000 randomized networks preserving degree sequence to demonstrate statistical significance.
- Published on SSRN: [papers.ssrn.com/sol3/papers.cfm?abstract\\_id=6539418](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=6539418)

## SELECTED TECHNICAL PROJECTS

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### HablaIO — IB Computer Science Internal Assessment

2025 — 2026

*AI-Powered IB Spanish Oral Practice Platform*

- Full-stack Next.js + TypeScript + PostgreSQL + Prisma platform that simulates the IB Spanish Individual Oral using the OpenAI Realtime API.

- Implemented six custom algorithms for IB-rubric-aligned feedback, anti-cheat features, and dual teacher/student dashboards; built for a real IB Spanish teacher client.

### SchoolWatch — Web App & Chrome Extension

2025 — 2026

*School Utility for Windermere Preparatory Students*

- Designed and shipped a website (lakerwatch.com) and a Chrome extension submitted to the Chrome Web Store under the Education category.
- Live bell schedule countdown with day-type detection, split-lunch toggling, GPA calculator, finals calculator, exam countdowns, and a curated student tools hub.

### AquaSense — CAS Group Project

2026

*Sub-\$150 Portable Raspberry Pi Water Quality Monitoring Buoy*

- Built a four-person CAS hardware project: Raspberry Pi 4 with DS18B20 (temperature), analog pH probe, and TS-300B turbidity sensors, routed through an ADS1115 ADC.
- Designed for deployment at a Florida nature preserve; deliverable includes a public Instructable build guide.

### CARTf — Curated Art Tutorials

2026

*Anti-AI Art Education Platform*

- Designed and prompt-engineered a curated digital art tutorial site organized into 7 skill categories, with admin tooling and a custom design system; built on Next.js + MongoDB + Vercel.

## COMPETITIONS & HONORS

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- **NCFL Lincoln-Douglas Debate — Grand Nationals Qualifier** · Two seasons of varsity competition; topic: “The possession of nuclear weapons is immoral.”
- **Wharton High School Data Science Competition (WHSDSC) 2026** · Built a hockey analytics pipeline using Micro Elo, Macro Elo, and logistic regression models; achieved ~60.75% cross-validated win-prediction accuracy.
- **Wharton Investment Competition** · Participant.
- **Provisional Patent (AGrader.ai)** · Filed on an agentic AP essay grading pipeline.

## ACTIVITIES & LEADERSHIP

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- **Varsity Golf — Windermere Preparatory School** · Four-year team member since 8th grade.
- **Lakerbotics (VEX Robotics)** · Founding member; programmer and builder for two seasons.

## SKILLS

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**Programming** Python, TypeScript, JavaScript (fluent); React, Next.js, Tailwind CSS, Node.js

**Data & AI** OpenAI API (incl. Realtime), Prisma, MongoDB, PostgreSQL, Supabase, network analysis, logistic regression, Elo modeling

**Hardware** Raspberry Pi, GPIO/I2C/1-Wire sensor integration, Linux/SSH workflows

**Languages** English (native), Mandarin Chinese, Spanish (IB SL)

**Other** Lincoln-Douglas debate, technical writing, prompt engineering, agentic system design