

# ANQI (ANGI) HE

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## EDUCATION

**Columbia University School of Engineering and Applied Science** New York, NY | Sep 2022 - Dec 2024

**M.S. in Business Analytics; M.S. in Financial Engineering**

Courses: Algorithms, Artificial Intelligence, Capital Markets, Stats & Time Series, Quantitative Risk Management, Monte Carlo Simulation, Programming in C++, Software Engineering, Operating Systems, Computer Networks, Modern Recommendation Systems

**Columbia University School of Engineering and Applied Science** New York, NY | Sep 2018 - May 2022

**B.S. in Operations Research:** Engineering Management Systems track

Courses: Calculus, Probability, Statistics, Optimization, Databases, Data Structures, Data Analytics, Managing Tech Innovations

## EXPERIENCE

**Haven Software Engineer** | New York, NY | Aug 2025

- Built Slackbot agent with LLM toolcalls to respond to customer requests, fixed bugs in internal Slack notification service
- Built new user onboarding flows that integrate with customers' accounting software, integrated new AI-powered expense categorization service into existing codebase as async and cron jobs, adapted internal admin dashboard for new workflow

**Valbonne Capital Quantitative Research Developer** | Remote (Part-time) | May 2025 - Jul 2025

- Researched and developed event discovery, analysis, and execution layers for systematic arbitrage trading stack, using exchange websockets & APIs and Python multithreading, helped team go from idea to live trading with real capital

**Gridify Software Developer** | Remote (Part-time) | Spring 2025

- Contributed to a \$2.4K ACV deal by building web app for a large university client for extracting data from energy bills, using Python and Gemini LLM, to dramatically simplify client's energy usage accounting
- Powered \$98K Renewable Energy Certificate (REC) forwards transaction in company's first closed beta, by designing and building backend and frontend components for the marketplace using SQLAlchemy, FastAPI, React, Carbon Design system

**UBS Quant Summer Analyst** | New York, NY | Summer 2024

- *Financing Digital Platforms:* Designed and implemented metrics for project management; used real time data on bank's stock borrowings and identified potential savings of up to \$5K/day, presented results to Managing Director
- *Quant Investment Strategies:* Replicated volatility-target equity index with Excel and Python, allowing traders to hedge risks
- *Knowledge Network:* Reported on macroeconomic data releases in U.S. and Canada; researched and wrote articles on performance of QIS products, results were published in newsletter and attracted client calls to sales

**Amcast Student Analyst** | New York, NY | Spring 2023

- Automated item production cost determination and pricing process with Python and MicrosoftSQL server, enabling operator to get a price quote instantly for over 55K items

**Hubbub Data Analyst & Software Developer** | New York, NY | 2021 - 2022

- Analyzed and reported rentals data to facilitate decisions on inventory management, contributed to internal monitoring tool with calculations for user LTV, average revenue per item, etc.
- Created internal web app with Python Flask and Google APIs to simplify operations workflow and reduce time spent on repetitive tasks by more than 10x

**Research - Broadband availability and subsidies Research** | Columbia Data Science Scholars Program | New York, NY | 2021

- Collected, cleaned, and feature engineered datasets in Python and Google BigQuery, wrote matching algorithm to enable analysis between disparate datasets which was used extensively by research team

## ACTIVITIES & PROJECTS

**Jobmatch API Service** SWE Class Project | New York, NY | Fall 2024

- Designed and built REST API service with C++ backend and cloud database, complete with API documentation, authentication, testing, CI & cloud deployment

**Adaptive Bitrate Video Proxy** Networks Class Project | New York, NY | Fall 2024

- Implemented proxy between browser video player client and web server to vary video bitrate based on measured throughputs, with python socket programming

**Infiniproof** Web 3 Class Project | New York, NY | Fall 2024

- Conceptualized and designed user experience for web 3 app that allows tracking of original work on Ethereum blockchain and IPFS to protect intellectual property; implemented front end features using Axios and React

**Airtune** (Winner of Best Executed Project) Columbia University Robotics Club Hack & Build hackathon | New York, NY | Nov 2024

- Built a theremin-inspired musical instrument toy using arduino, sensor, and buzzer, supported 2 octaves and 3 sound modes, achieved good interactivity, responsiveness, and control

**WKCR 89.9 FM** Director of Ops & Engineering (2019 - 2020); Station Manager (2021 - 2022) | New York, NY

- Conducted studio training for student interns; troubleshooted equipment issues; created and deployed python script on AWS EC2 to monitor radio stream for silence, allowing early detection of issues and improving listener experience; helped station transition to remote operations during covid; led board meetings; served as liaison between station and University

## SKILLS & INTERESTS

**Programming Languages & Tools:** Python, HTML, Javascript/TypeScript, React, SQL, C/C++, R, Scala, Google Cloud, AWS, Docker, Git

**Interests:** guitar, music theory, music composition & production