

Julian Vallyeason

Email: julian_vallyeason@brown.edu | **Phone:** (571)-296-5740 | **Portfolio:** vallyeason.com/Projects

EDUCATION

Brown University

Providence, RI Class of 2020

Bachelor of Science: Applied Math-Economics, Chemical Engineering

GPA: 4.0; SAT: 2400

Honors: Tau Beta Pi, Engaged Scholars Program, Honors Thesis

EXPERIENCE

D. E. Shaw, Proprietary Trader Intern

New York, NY, Summer 2019

Macro Commodities

- Engineered improvements to crop yield forecasting models using weather and physiological data
- Built real-time interactive weather dashboards for crop growth to inform investment strategy in different regions

Economic Forecasting

- Built explanatory and predictive models for equity index flows and returns in emerging markets

Cigna, Actuarial Intern (Dental Pricing)

Hartford, CT, Summer 2018

- Built and automated an annual trend model for dental health-maintenance organization (DHMO) pricing
- Used SQL to analyze Cigna's dental claims database to identify persistent patterns and structural shifts

Cloud Agronomics, Cofounder

Rhode Island, Sep 2016 – June 2018

- Launched a hyperspectral imaging company that develops cameras for the early detection of crop disease
- Developed pitch decks and raised early-stage, venture capital funding for the company:
 - Brown Venture Prize (2nd)
 - Dorm Room Fund Seed Round
 - Hult Prize Ivy Finalist
 - MIT Agribusiness Finalist
 - Rough Draft Ventures Seed Round
 - American Inno 25 Under 25

World Resources Institute, Data Analytics Intern

Washington DC, Summer 2017

- Developed text analysis tools using social media API's to engineer a data-driven strategy for forest restoration

ACADEMIC RESEARCH

Brown University, Department of Engineering

Rhode Island, Sep. 2016 – Present

- **Laboratory TA: Dynamics and Vibrations**
 - Helped students debug MATLAB code and set up Python PID controllers for a quadcopter lab
- **Brown Space Engineering: Payload Team Lead**
 - Led a team of students to prototype and engineer a robotic arm attached to a cube satellite
 - Executed space-grade testing of LiFePO₄ batteries for EQUISAT (a NASA satellite launch)

UNIVERSITY JOBS AND ACTIVITIES

Brown Journal of World Affairs, Business Manager

- Led the journal in communicating with online distributions services and launched the journal's digital sales presence

Student Employment and Activities

- Department of Mathematics: Student Grader Fall 2017 – Present
- Hack@Brown: Community Organizer (Hardware Team) Fall 2017 - Present
- Hack MIT, Best Data Visualization Award Sep. 2017

Languages: English (native), French (Professional), Mandarin (Studying)

Software and Programming: Proficient in Microsoft Office, MATLAB, Python, Java, SQL, Scala, Mathematica

Music: Royal Conservatory of Music Piano Performance Level 10 (First Class Honors)