

# Julian Vallyeason

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## EDUCATION

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### 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

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### 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 (2<sup>nd</sup>)
  - 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

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### 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 LiFePO<sub>4</sub> batteries for EQUISAT (a NASA satellite launch)

## UNIVERSITY JOBS AND ACTIVITIES

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### 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)