

Julian Vallyeason

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EDUCATION

Brown University

Rhode Island, Class of 2020

Bachelor of Science: Sc.B. Chemical Engineering, A.B. Applied Math-Economics

GPA: 4.0; SAT: 2400

Honors: Tau Beta Pi, Honors Thesis

EXPERIENCE

D. E. Shaw, Proprietary Trader Intern

New York, NY, Summer 2019

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 Research

- 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

- Started 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 for Engineering Man-Machine Systems (LEMS) Student Researcher**
 - Built a haptic belt using vibrating motors and a Bluno Nano as a navigation tool for the visually impaired
 - Added a software layer to let the belt interface with a back-end navigational engine and a front-end interface
- **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 Engineering: Senior TA (Dynamics and Vibrations) Fall 2017 – Present
- Hack@Brown: Community Organizer (Hardware Team) Fall 2017 - Present
- American Institute of Chemical Engineers (AIChE - Brown Chapter) Fall 2019 - Present

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

Software and Programming: *Proficient:* MATLAB, Python, Java, Scala, Mathematica, SQL | *Learning:* C++

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