Julian Vallyeason

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EDUCATION

Brown University — Providence, RI Class of 2020
GPA: 4.0 (out of 4.0) **Concentration**: Sc.B Engineering (Chemical), Computer Science-Economics

Thomas Jefferson High School for Science and Technology — Alexandria, VA 2013-2016
SAT: 2400; **ACT: 36**

EXPERIENCE

Cigna, Actuarial Intern — Hartford CT, Summer 2018
- Built a novel trend analysis model to price dental health-maintenance-organization (DHMO) insurance premiums
- Worked across underwriting and sales teams to study dental claims across Cigna's plan offerings

Cloud Agronomics, Cofounder — Rhode Island, Sep 2016 - Present
- Co-founded a hyperspectral imaging startup to diagnose crop disease for citrus farmers
- Raised over **$45,000** in financing: Penn Aerospace Finalist (3rd), Startup Storm (2nd place), Brown Venture Prize (2nd), Dorm Room Fund Convertible Note, Hult Prize Ivy Finalist, MIT Agribusiness Prize Finalist
- Led market research into crop insurance pricing and methods to pivot sensing technology into the insurance market

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

US-Asia Institute, Political Affairs Intern — Washington DC, Winter 2017
- Represented the institute at congressional events; corresponded with legislative staff and delegations to Asia

ACADEMIC RESEARCH AND AWARDS

Goldman Sachs Data Visualization (Hack MIT) — Cambridge Massachusetts, Sep 2017
- Developed corporate news, stock tracking, and econometric visualizations in real time

JUMP Lab: Fuel Cell Engineering — Alexandria VA, Sep 2014 – June 2016
- Mathematically modeled fuel cell output with different substrates under abiotic stress
- Virginia Science and Engineering Fair (1st); Princeton Envision Finalist (2nd Place); Tiger Launch Regional Finalist

University of Maryland, Department of Neuroscience — College Park MD, June 2015 – Feb 2016
- Automated crayfish interactions using MATLAB to measure changes in aggression following sensory stimulation
- US Public Health Service Distinguished Project Award (2016); Virginia Tech Capital Region Best Project (2016)

ACTIVITIES, SKILL SETS & INTERESTS

University Student Organizations and Jobs:

Brown Satellite Team (Brown Space Engineering), Power Systems Leader
Designed solar panel PCB boards using Autodesk Eagle. Conducted LiFePO4 battery testing (heat shock, vacuum, vibration)

Department of Engineering, Brown University, Engineering Teaching Assistant (TA)
Designed four core laboratory experiments over the semester and held open TA hours to assist students in engineering labs

Department of Mathematics, Brown University, MATH 0090 (Calculus) Grader
Graded weekly assignments and exams for introductory calculus students

Hack@Brown, Community Organizer (Experience Team)
Engaged in sponsor outreach, logistics (food, prizes, venue), and inventory operations

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

Software: Autodesk Eagle, SolidWorks, Bloomberg (BESS), Wolfram Mathematica, Excel (PivotTables, Macros)

Programming: MATLAB (proficient), Python (proficient), Java (proficient), HTML5/CSS (proficient)

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