JULIAN VALLYEASON

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EDUCATION

Brown University

Sc.B. in Chemical Engineering and Applied Math-Economics

Providence, RI 2016-2020 GPA: 4.0 (out of 4.0)

Partial Differential Equations, Macroeconomics, Real Analysis, Organic Chemistry, Electrodynamics, Materials Science

TJHSST

Alexandria, VA 2013-2016 **SAT: 2400 ACT: 36 GPA: 4.52**

National AP Scholar, Presidential Scholar Candidate, NHS

Neuroscience, Linear Algebra, Probability, Quantum Mechanics

EXPERIENCE

Co-Founder and Product Engineer, **Pursuit Solar**

Solar UAV startup that provides aerial data acquisition services in agriculture.

[www.cloudagronomics.com]

Providence, RI Fall 2016 - Present

Managed UAV financing and development. Recipient of Brown's Social Innovation Grant; Penn Aerospace Finalist, Startup Storm International Finalist.

Movement Building Intern, **World Resources Institute**

Washington DC Summer 2017

Developed analysis tools using GDELT and social media API's to engineer a data-driven strategy for forest restoration. Conducted interviews with leading movement activists.

Co-Founder and SAT Instructor, **Perfect SAT-ACT**

[www.perfectsatact.com]

Online Summer 2016 – Present

Conducted outreach and publicity campaigns through YouTube and monthly seminars to expand business operations.

Lead SAT tutoring sessions; built 12-course SAT curriculum.

Generates over $1000 in monthly revenue through services.

Political Affairs Intern, **US-ASIA Institute**

Winter 2016-2017

Represented USAI at conferences and congressional hearings. Corresponded with legislative staff and organized Congressional delegations.

Invited Programs: ICT for Ag (2017), Next Gen Summit (2017), Innovation Dojo (2017), Ivy League Policy Summit (2017), CCG Conference (2017), Princeton Envision (2016)

ACADEMIC RESEARCH

Project Manager (indep.), **JUMP Lab - Voltworks**

Alexandria, VA Fall 2014 – Spring 2017

Developed mathematical model to optimize output in soil-based microbial fuel cells using different substrate compositions.

Awards: Virginia Science and Engineering Fair 1st Place (2015), Genius Olympiad International Finalist (2015), Princeton Envision Entrepreneurship Finalist (2nd Place), Princeton Tiger Launch Regional Finalist (2017)

Neuroscience Researcher, **Univ. of Maryland (Herberholz)**

College Park, MD June 2015 – February 2016

Investigated role of sensory signals in crayfish dominance hierarchies.

Awards: USPHS Distinguished Project Award (2016), V'Tech National Capital Region Best Project (2016), HFES 2nd Place Award (2016)

COMMUNITY SERVICE

Cofounder / Outreach Manager, **STEMWISE (501c3)**

Nonprofit science and math tutoring organization in 4 locations nationwide.

Greater Washington Area Fall 2014 – Summer 2016

Recruited over 20 new members across 3 schools. Developed series of educational videos. Tutored in 3 community centers over 2 years.

Clients: Fairfax, Loudon, Arlington schools and community centers

Engagement Director and Instructor, **Montfort Youth Center**

Nonprofit institution focused on giving underprivileged students in Malaysia access to a comprehensive education.

Malacca, Malaysia Summer 2014

Taught mathematics and English to dasses of 40 upper-level students.

SKILLS, PROJECTS, ACTIVITIES

Languages: English, French, Mandarin (working)

Software: Microsoft Office, Adobe Photoshop, Adobe Illustrator, Adobe Premiere, Autodesk Inventor, Autodesk Eagle, SolidWorks, Bloomberg (BESS Certification), Wolfram Mathematica

Technology: Java, MATLAB, Python, HTML / CSS, Javascript

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

UNIVERSITY ORGANIZATIONS AND ACTIVITIES:

Power Systems Researcher, **Brown Satellite Team**

Designed PCB boards with solar cells. Conducted LiFePO4 heat and vacuum testing. Developed conformal silica gel coating procedure.

Business Associate, **Brown Journal of World Affairs**

Managed and produced website content for outreach and information dissemination. Responsible for the journal's administrative liasons.

Marketing Associate, **IvyInspire Journal (Inter-Ivy Initiative)**