Jacob Bremerman

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Technical Skills

- Advanced skills in statistical analysis using R, Matlab and Excel with applications in physics laboratory experimentation and independent research projects
- Intermediate object-oriented programming (developed dictionary app using Java and Android Studio)
- Developed a GRE word-game hackathon project with Alexa using Node.js
- Introduction coursework in Python and SQL in data science and natural language processing applications
- Basic website development experience with HTML, CSS, and Javascript

Research Experience

- Led a team of undergraduate students in a four-year thesis research project on piezoelectricity and touchscreen technology
- Individually completed multiple linguistics research projects (topics include accent change in immigrants and focus marking of heritage speakers)
- Proficient in all steps of the research process (literature review, data collection and analysis, presentation, etc.)

Language Ability

- Professional experience translating Spanish to English and tutoring English, Spanish and French to over 20 clients
- Fluent: English and Spanish
- Near-fluent: French
- Proficient: German
- Basic: Korean and Persian

Education

Bachelor of Science and Bachelor of Arts | May 2017
University of Maryland, College Park: Honors College

- Majors: Physics and Spanish (linguistics track), Minor: Mathematics, GPA: 3.8/4.0
- Continuing education in Computer Science in 2018
- Honors: HENAAC Scholar, AFCEA DC Scholar, Dean's Scholar (UMD), Regents Scholar (USM), Angelo Bardasis Memorial Scholar (Department of Physics, UMD), Dean's List (UMD)
- Thesis: Piezoelectric Sensing and Energy Harvesting in Touchscreens
- Extra Involvement: 4 years in a Language House immersion program (in French and Spanish), 8-month study/work abroad in Madrid, 2 years in PULSAR Linguistics program, 1 year as club chair of Language and Linguistics club, 4 years in Gemstone undergraduate team research Honors program

Work Experience

University of Maryland, College Park: Honors College

Scholarships Coordinator for Advanced Cybersecurity Experience for Students (ACES) Program | June 2018-Present
- Oversees a $5M grant for cybersecurity education research and student scholarships (budget, logistics, etc.)
- Supervises and advises 20 student workers and scholars
- Runs a cybersecurity mentorship program, connecting 100 students with 40 expert mentors from industry
- Leads the assessment of the program including surveying, data analysis and data visualization for student data

Interim Project Management Specialist for Entrepreneurship and Innovation (EIP) Program | October 2017-June 2018
- Managed new partnership with NIST through UMD-NIST technology commercialization program
- Supervised and advised 10 student workers
- Ran periodic student workshops for topics in programming, entrepreneurship, academic success, etc.

Student Worker for Gemstone Program | August 2014-May 2017
- Assisted the program in various facets as a student
- Taught discussion sessions for research courses
- Led the Steering Committee for curriculum changes
- Served as a camp counselor for incoming freshmen