SHAWN T. SCHWARTZ

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SUMMARY

A well-rounded undergraduate student and public speaker with 9+ years of programming, design, and full-stack development experience, in over 10 programming languages. My research interests include memory differences and deficits in younger adults as well as in the development of innovative teaching technologies to enhance the 21st century classroom education experience.

EDUCATION

University of California, Los Angeles (UCLA), Los Angeles, CA   Sept. 2015 – Exp. June 2019
Bachelor of Science (B.S.), Biology, *Expected* June 2019
Bachelor of Science (B.S.), Cognitive Science, *Specialization in Computing*, *Expected* June 2019
    Highest Departmental Honors and Thesis, *Candidate*
    Primary Advisor: Dr. Alan D. Castel

PUBLICATIONS

[1] Dang, J., Lin, B., Yuan, J., **Schwartz, S. T.**, Shah, R. M., & Garg, N. K. (2018). Smart access to 3D structures. *Nature Reviews Chemistry 2*, 95 – 96. View PDF

RESEARCH EXPERIENCE

Memory and Lifespan Cognition Lab, UCLA, Los Angeles, CA   March 2018 – Present
Undergraduate Thesis Student & Research Assistant
Principal Investigator: Dr. Alan D. Castel
- My current research with Alexander L.M. Siegel, M.A., under Alan Castel, Ph.D., focusses on establishing differences in the relationships between an item's value and its spatial location to investigate participants' strategies in visuospatial memory recall with risk-reward motivation.
- Other projects include the investigation of priming and interference in everyday memory and attention.
- Cognitive Research Interests: Metacognition, Aging, Metamemory, Risk-Reward, Visuospatial Memory

NASA Jet Propulsion Laboratory (JPL), Pasadena, CA   October 2013 – March 2014
High School Computational Chemistry Researcher
- Developer of Software: *"Computational Simulation of Multidimensional H_2O Molecule Interactions" (Java + MATLAB)* under the mentorship of Dr. William N. Warner.
- First rendition of software won 1st place at L.A. County Science Fair, March 2013
- Competed for invitation to Intel International Science and Engineering Fair at the California State Science Fair, April 2013.

TECHNICAL & LABORATORY SKILLS

- **Programming**
  Fluent in Java, C++, MATLAB, PHP, HTML5, CSS3, JavaScript
  Proficient in Swift, MySQL, Ruby, JSON, jQuery, Python, AngularJS, Node.js
  Other Libraries & Tools: jsPsych, Collector, Psychtoolbox, Jekyll, Jmol, JSmol, p5.js
  Currently learning Machine Learning: CoreML, TensorFlow

- **Applications**
  Bash, Git, LaTeX, IBM SPSS Statistics, Microsoft Excel, Sublime Text, Atom, R-Studio, Xcode
  Adobe Photoshop, Adobe Illustrator, Adobe InDesign, Adobe Lightroom, Adobe XD CC
- **Operating Systems**
  MacOS, Windows, Linux, iOS, Android
- **Statistical**
  Analysis of variance, correlation, chi-square, regression, hierarchical linear modeling (HLM)
- **Laboratory**
  Titrations, Micropipetting, Gel Electrophoresis
  Mass Spectrometry, IR, H,C–NMR Analysis

TECHNICAL EXPERIENCE

UCLA Health, Faculty Practice Group (FPG)   Los Angeles, CA
Population Health Care Coordinator Intern   June 2017 – Present
- Invented, developed & maintains novel web-software for UCLA Health Hospice & Palliative Care Departments: *myEMRA®: "my Electronic Matching Resource Assistant"*. https://myemra.com
  Adoption & Pilot by UCLA Health System & ISS for proxied network integration currently in progress
- Outreach to patients via telephone encounters to obtain missing medical procedure records.
- Maintains innovative Excel Database from UCLA patients' charts ("CareConnect") & 9 local hospice agencies to track & draw new statistical conclusions regarding UCLA hospice referrals to external agencies.
- **Total Volunteered Hours: 432 hours.**

Associated Students UCLA (ASUCLA)   Los Angeles, CA
Lead Student Full-Stack Web Developer / Technical Assistant   January 2016 – Present
- Redesigned entire ASUCLA institutional website & implemented backend for Board Members to access and edit site content. Site reaches over 500,000+ unique views annually. http://asucla.ucla.edu
- Assisted in designing layout & developed backend JavaScript solutions for responsive headers for the new UCLA Store website. http://uclastore.com
- Developed a JavaScript kiosk program to run historical timeline of UCLA in UCLA Ackerman Union Level 1.
- Designed & programmed interactive JSON ASUCLA Store Reward Points checker & PHP-based menus for campus restaurants.
- Design, code, and send out weekly mass email promotions for 12 UCLA campus stores *(1,000,000+ emails delivered per year)*.

QR Chemistry   Los Angeles, CA
Software Development Consultant & Application Designer   January 2018 – July 2018
- Part of the development & execution team of an Apache Cordova wrapped application that provides smart access to 3D molecular structures for enhancing organic chemistry education in the classroom. https://qrchem.net
- Developed with the guidance & support of Dr. Neil K. Garg & Dr. Daniel Caspi.
  Published in *Nature Reviews Chemistry*, [1] & Supporting Article in *The Daily Bruin*.

Kidz Dental Care   Porter Ranch, CA
Designer & Web Developer   July 2017 – June 2018
- Designed, built, and currently maintains (per diem) pediatric dental responsive websites.
  https://kidzdentalcare.com & https://kidzdentalcare661.com
- Created HIPAA compliant secure patient information (PHP) form that generates secured PDF information form to streamline patient experience and reduce wait-times.

LanguageBird®, LLC   Los Angeles, CA
Lead Full-Stack Developer & Programmer   July 2016 – March 2018
- Develop and manage dynamic user experience for WASC accredited online school providing University of California and NCAA approved online 1:1 foreign language courses and credit to over 1000 high school students, worldwide. https://languagebird.com

VOLUNTEER EXPERIENCE

UCLA Health   Santa Monica, CA
Care Extender Internship, Department Coordinator Assistant (DCA)   February 2017 – Present
- Shadow out-patient surgeons, radiology technicians for in-patient and emergency department cases, and check-in patients for early-morning surgeries in admissions.
- *Department Coordinator Assistant:* Audit fellow Care Extender Volunteers throughout their assigned departments to maintain the quality and integrity of the Care Extender Internship Program.
- **Total Volunteered Hours: 691 hours.**

UCLA Center for Accessible Education (CAE)   Los Angeles, CA
Volunteer Notetaker   January 2017 – Present
Provided quality, detailed notes for students with registered disabilities, for the following courses:
- Psychology 20: Introduction to MATLAB Programming (Winter 2017)
- Psychology 100B: Research Methods in Psychology (Fall 2017)
- Psychology 124C: Human Memory (Winter 2018)
- Ecology and Evolutionary Biology 186: Evolutionary Medicine (Summer 2018).

LEADERSHIP EXPERIENCE

Back Off Bully Organization   Chatsworth, CA
Co-Founder & Web Developer   March 2014 – Present
Back Off Bully is an organization that is working to end the bullying epidemic and give self-confidence to those affected by it.
- Built an international network in over four countries of thousands of children and adults through website outreach and social media campaigns. Main Sponsor: **Nancy Cartwright** (Voice of Bart Simpson from *The Simpsons*). https://backoffbully.org