

RYLAN SCHAEFFER

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1735 Cherrytree Lane
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EDUCATION

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| University of California, Davis | June 2016 |
| Bachelor of Science, Computer Science Engineering | |
| Bachelor of Science, Statistics | |
| University of California Regent Scholar | |
| GPA: 3.5 / 4.0 | |

EXPERIENCE

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| Python Developer, Daily Fantasy Sports Lineup Prediction Project | 1/2016-4/2016 |
| Developed data pipeline to profit from online daily fantasy sports websites. Scraped and cleaned National Basketball Association data, then leveraged data to predict individual player performance using XGBoosting. Formalized lineup selection as an integer programming problem and implemented solver using PuLP that outperformed industry-standard in 47% of cases and tied in 50% of cases. | |
| Python Developer, Undergraduate Researcher for Prof. Norm Matloff | 9/2015-6/2016 |
| Led team of six undergraduates to develop online testing platform for use in UC Davis classes. Deployed in two courses to approximately 75 undergraduates. Built server to push test problems client-side and to accept student submissions. | |
| Instructor, Bitcoin and Cryptocurrencies | 12/2015-6/2016 |
| Designed and taught undergraduate course on leveraging distributed consensus protocols and cryptographic primitives to create decentralized digital cash. Covered advanced topics including Ethereum, Zerocoin, Enigma and the Bitcoin Lightning Network. Wrote programming assignments and grading scripts. | |
| Chief Financial Officer/Chief Operating Officer, Associated Students of UC Davis | 4/2014-2/2015 |
| Authored and managed ASUCD's \$12 million budget. Solved \$100,000 structural annual deficit. Improved operating efficiency of 26 businesses and services to better serve UC Davis undergraduates. Hired unit directors and new ASUCD staff advisor. Beyond day-to-day management, accomplishments include: <ul style="list-style-type: none">-Merged Campus Copies/Classical Notes with the Post Office to halve labor costs-Restructured Experimental College's and Whole Earth Festival's operating models for future stability-Reformed Business and Finance Commission auditing procedures and added enforcement mechanism to unit director reports to ensure timely, accurate and actionable information | |

SAMPLE PROJECTS

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| Fuel Droplet Image Analysis for Prof. Benjamin Shaw |
| MATLAB script to track radius of soot-obscured fuel droplets combusting aboard ISS. Used voting algorithm between circular hough transform of images and circular hough transform of gradient mask, interpolating values for noisy images. |
| Stack Overflow Web Scraper |
| R script to analyze user difficulty with different functions through Stack Overflow posts. Scraped summaries, questions, answers, and comments of target tags using XPath queries. |
| Virtual Operating System |
| C++ virtual operating system on top of professor-provided virtual machine, including a command line interface, piping, redirection, scheduling, memory pooling and FAT image mounting. |

TECHNICAL SKILLS

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| Programming Languages: Python (NumPy, Pandas, Scikit Learn), C++, R, MATLAB, SQL (Postgres, SQLite), Java |
| Operating Systems: Linux, Windows |

UNIVERSITY SERVICE, AWARDS AND HONORS

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| Outstanding Senior Award, Department of Computer Science and Engineering | 6/2016 |
| College of Engineering Dean Recruitment Advisory Committee | 10/2014-6/2015 |
| Tau Beta Pi Engineering Honor Society, Phi Kappa Phi Honor Society | 6/2013 |
| Champion, 2011 Tournament of Champions, Congressional Debate | 5/2011 |
| Eagle Scout, Boy Scouts of America | 5/2011 |
| Party Chairman, California Boys' State | 6/2010 |