STUART RUCKER

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EDUCATION

Phillips Exeter Academy — Exeter, NH

Candidate for Classical Diploma (GPA 10.63/11) — *2018*

· Classes include: Multivariable Calc, Machine Learning, Probability Theory, Game Theory, Fourier Series, Advanced Classical Mechanics, Thermodynamics, Organic Chemistry
· AP: Comp Sci (5), Calc BC (5), Physics C-Mech (5), Physics C-E&M (5), Physics 2 (5), Stats (5), Macroeconomics (5), Microeconomics (5), Chemistry (5), English Language & Composition (5), Latin (4), Human Geography (5), World History (5)
· SAT: (790 M, 780 RW), Math Level 2 (800), Physics (800), Latin (760)

Programming Languages: Java, Arduino (C++), C#, Node JS, MATLAB, Web (HTML, CSS, JavaScript)

EXPERIENCE

American Traffic Solutions — Mesa, AZ

Data Scientist & Developer — *Summer 2017*

· Developed machine learning software to automate the processing of images for traffic citations.

Pure Chat, Inc — Scottsdale, AZ

Software Developer — *Summer 2016*

· Developed automated Selenium/API test scripts to debug and improve software quality.
· Rearchitected codebase to a micro service-oriented architecture to enhance scalability.
· Improved security by preventing code injections and fixing API holes.

TechLab Education, Inc — Silicon Valley, CA

Software Developer & Instructor — *Summer 2015*

· Developed image processing algorithms to detect diabetes from retinal scans. Technical paper *Rapid, Automated Mosaicking of the Human Corneal Subbasal Nerve Plexus* published in Biomedical Engineering/Biomedizinische Technik.
· Lead teacher for Arduino, Internet of Things, Java and Web Development classes for middle and high school students. Developed software teaching tools for Arduino, Java, and Web classes.

HONORS

USA Computing Olympiad (USACO): Platinum Division	*2016*
USA Physics Olympiad (USAPhO): Silver Medal	*2017*
Conrad Foundation Spirit of Innovation Challenge International Winner: Power Pitch Award	*2017*
AngelHack Silicon Valley 2015: 1st Place – Gesture Control, 2nd Place – Autodesk 3D App	*2015*
Phillips Exeter Academy Mathematics Award	*2017*
Phillips Exeter Academy Computer Science Award	*2015*
National Latin Exam: Gold Medals Level III and Level IV Poetry	*2015-2016*
College Board: AP National Scholar	*2016*
AZ Studies Program Piano: Superior with Honors	*2007-2014*

LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

V Squash (Captain, MVP), V Volleyball	*2014-*
The Exonian Newspaper : Chief Digital Editor, Director of Subscriptions	*2014-*
Economics Club: co-head	*2014-*
Democracy of Sound: co-head	*2014-*
Scottsdale AZ Sister Cities Assoc Jr Board Member and Youth Ambassador to Morocco	*2013-*