

STUART RUCKER

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EDUCATION

Phillips Exeter Academy

Exeter, NH

Candidate for Classical Diploma (GPA 10.6/11)

2018

- Classes include: Multivariable Calc, Machine Learning, Advanced Classical Mechanics
- APs: Comp Sci (5), Calc BC (5), Physics C-Mech (5), Physics C-E&M (5), Physics 2 (5), Stats (5), Macroeconomics (5), Microeconomics (5), Latin (4), Human Geography (5), World History (5)
- SATs: Math Level 2 (800), Physics (800), Latin (760)

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

EXPERIENCE

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 - National Winner Power Pitch Award 2017

AngelHack Silicon Valley 2015: 1st Place – Gesture Control, 2nd Place – Autodesk 3D App 2015

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, V Volleyball, JV Soccer 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-