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, Quantum Field Theory, Econ Models
- 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), Human Geography (5), World History (5), Latin (4)
- 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* to be 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.

Massachusetts Institute of Technology (MIT) Media Lab   Cambridge, MA
Collaborator   *2014*

- Developed Arduino based hardware and software projects (website controlled Bluetooth sprinkler system, self-designed laser cut Arduino controlled clock, real-time feedback rowing accelerometer).

HONORS

USA Computing Olympiad (USACO) Platinum Division	*2016*
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

JV Soccer, V/JV Squash, V Volleyball	*2014-*
The Exonian Newspaper : Board Member, Director of Subscriptions, Technical Director	*2014-*
Economics Club: co-head	*2014-*
Democracy of Sound: co-head	*2014-*
Scottsdale AZ Sister Cities Assoc Jr Board Member and Youth Ambassador	*2013-*