

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, 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-