

STUART RUCKER

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EDUCATION

Massachusetts Institute of Technology (MIT) Cambridge, MA
Candidate for B.S. in Computer Science, Economics and Data Science Class of 2022
· Courses: Math for Computer Science, Fundamentals of Programming, Probability, Microeconomics

Phillips Exeter Academy Exeter, NH
Classical Diploma, Early Cum Laude (GPA: 10.5/11, top 5%) Class of 2018
· Courses: Fourier Series, Game Theory, Multivariable Calculus, Probability Theory
· AP: score of 5 on 15 exams (including Microeconomics & Macroeconomics)
· SAT: (790 M, 780 RW), Math Level 2 (800), Physics (800), Latin (760)

Programming Languages: Java, Python, Arduino (C++), C#, Node JS, MATLAB, Web dev

EXPERIENCE

American Traffic Solutions Mesa, AZ
Data Scientist & Developer Summer 2017
· Developed machine learning software to automate the processing of images for traffic citations.
· Used convolutional neural networks in Tensorflow to detect and track components of vehicles

Pure Chat, Inc Scottsdale, AZ
Software Developer Summer 2016
· Rearchitected codebase to a micro service-oriented architecture to enhance scalability.
· Developed automated Selenium/API test scripts to debug and improve software quality.

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
College Board: NH AP State Scholar 2017
AngelHack Silicon Valley 2015: 1st Place – Gesture Control, 2nd Place – Autodesk 3D App 2015
National Latin Exam: Gold Medals Level III and Level IV Poetry 2015-2016

LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

MIT Varsity Squash Team 2018-
Varsity Squash (Captain, MVP), Varsity Volleyball at Phillips Exeter Academy 2014-2018
The Exonian Newspaper: Chief Digital Editor, Director of Subscriptions 2014-2018
Economics Club: co-head 2014-2018
Scottsdale AZ Sister Cities Assoc Jr Board Member and Youth Ambassador to Morocco 2013-2018