

# Arun Chintalapati

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## Education

### MASSACHUSETTS ACADEMY OF MATH AND SCIENCE | GRADE 11 & 12

- Massachusetts Academy of Mathematics and Science, an advanced two-year secondary school program at Worcester Polytechnic Institute (WPI); specialized grade 11 coursework in math modeling, physics, engineering, research, technical writing, computer science, humanities, and Spanish; grade 12 coursework selected from the WPI undergraduate curriculum, including Introduction to Program Design, Object-Oriented Design Concepts, Systems Programming Concepts, Algorithms, Calculus III-IV, Differential Equations, and Introduction to Literature.

### SAINT JOHN'S HIGH SCHOOL | GRADES 9 & 10

- Saint John's High School, a private college preparatory school for boys; grade 10 coursework included Honors Precalculus, Honors English II, Honors Chemistry, Honors Spanish II, Honors Intro to Java, and AP European History; grade 9 coursework included Honors Algebra II, Honors English I, Honors Biology, Honors Spanish I, and Honors World History I

## SCORES

SAT: 1570/1600      ACT: 35/36      SAT Math II: 800/800      SAT Physics: 740/800

AP Calculus BC: 5/5      AP CSA: 5/5      AP Physics C Mechanics: 4/5

## Honors and Awards

- **Grade 11:** National Honor Society Inductee, 2<sup>nd</sup> place at Massachusetts State Science and Engineering Fair, 3<sup>rd</sup> place at Worcester Regional Science and Engineering Fair, 2<sup>nd</sup> place at Fitchburg State University Programming Competition, 2<sup>nd</sup> place at MetroHacks IV for Health division, Finalist for Project Paradigm, Top 50 in WOCOMAL
- **Grade 10:** 2<sup>nd</sup> place in New England Jr HS Regional Championship Crew Race, Honor Roll and Headmaster's List
- **Grade 9:** Honor Roll and Headmaster's List

## Extracurricular Activities

- **Grade 11 Clubs:** Programming Team, Varsity Math Team, CyberPatriot, SolidWorks CAD elective, Art Club, Car Repair elective
- **Grade 10 Clubs:** Programming Team, Varsity Math Team, Crew Team, Engineering Club, Improv Club
- **Grade 9 Clubs:** Programming Team, Freshman Math Team, Cross Country Team, Crew Team

- **Community Service:** Founded SBS Mathletes (middle school math team), tutored incoming high school freshman, sophomores, and seniors, assembled science kits with People Making a Difference (PMD) at MIT

## Research Experience

- **STEM I:** Investigated effects of sensory stimuli on memory recall in *Drosophila* models of Alzheimer's disease
- **STEM II:** Developed a device to assist a client with removing snow from in front of his wheelchair
- **Apps for Good:** Developed an educational application to increase interest in local and state politics in teenagers
- **Independent CS Project:** Developed a 2-dimensional RPG in which the player controls a Spider-man character and explores a vast world full of enemies.

## Work Experience

- **Markforged:** Software Engineering Intern Summer 2019  
My responsibilities included programming user interfaces in JavaScript and Python for 3-D printer software interfaces and design and analysis of Single-Sign-On with AWS Cognito using various account types.

## Computer and Laboratory Skills

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|---------------|--------------|-----------------------|----------------|
| • Java        | • JavaScript | • Game Maker Studio 2 | • SolidWorks   |
| • Swift       | • HTML       | • Android Studio      | • WordPress    |
| • Python      | • CSS        | • Mathematica         | • Google Suite |
| • Objective C | • Bootstrap  | • Audacity            |                |

## Certifications

- **MITx on edX:** 6.00.1x: Introduction to Computer Science and Programming Using Python (Aug 2019)
- **Udemy:** The Complete 2020 Web Development Bootcamp (Jan 2020)
- **Udemy:** Understanding TypeScript – 2020 Edition (Jan 2020)