Akik Kothekar

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EDUCATION

- **University of Michigan, College of LS&A** — Ann Arbor, MI
  Bachelor of Science in Computer Science; GPA: 3.1 — *Aug. 2017 –*
  Relevant Coursework-
  - **EECS 183**: Grade- A
  - **EECS 280**: Grade- Currently enrolled
  - **EECS 203**: Grade- Currently enrolled
- **Singapore International School** — Mumbai, India
  IB Diploma; Points: 36/45 (A in Mathematics Extended Essay) — *Aug. 2015 – April. 2017*

COMPUTER SCIENCE PROJECTS

- **Successive Over-Relaxation Solver for Linear Systems** — Indian Institute of Technology, Bombay
  Research Project under the mentorship of a Mathematics Professor — *April 2016 - August 2016*
  The Research project was an effort of over 100 hours including about 45 hours of discussion with the professor. I explored the various iterative methods to solve linear systems and why iterative methods are more efficient than inverting a matrix. I had to learn mathematical concepts such as maximal norms to carry out convergence analysis. The algorithms were used to solve large matrices such as the poisson matrix.

- **Using technology to reduce high school drop-out rates in rural India** — Mumbai, India
  Community outreach Initiative using Computer Science — *Jan 2016 - August 2016*
  The project received an acknowledgement from the **Human Resource Development Ministry of India**. Developed an Information Technology and Computer Devices based model that will make education, in middle and high schools in rural parts of India, free and improve the quality of education. I published an article - 'An Open letter to the Prime Minister of India from A Teenager', in the Economic Times of India to bring the issue and the solution to the attention of the Prime Minister of India

- **Micro Arcade** — Ann Arbor, MI
  Chief of Software — *November, 2017*
  Developed the game 'Space Invaders' using C++ and run it on an arduino board, using a 16x32 RGB LED board as the display. The project was the final project for EECS 183 and was highly acknowledged by the EECS 183 faculty. As a 'reach' initiative, we coded a two player game based on Space Invaders. To complete this project, the team had to learn about using the arduino IDE and the circuit.

- **Employee and Payroll Management System** — Mumbai, India
  IB Computer Science HL project — *January, 2017*
  Developed a software which manges a database of employees and their respective payroll data. The software would allow the user to edit the data in the database

- **Essay on RSA Encryption** — Mumbai, India
  IB Mathematics Exploration — *January, 2017*
  Explored the mechanism of the RSA cipher and studied the basics of how it is useful in online transactions and banking

EXTRA CURRICULAR ACTIVITIES

- **Squash**: Ranked 38th in India. Participated in national level tournaments
- **SIS Computer Science Club**: Started the computer science club in my high school.
- **Quiz Bowl**: Participated in the quiz bowl every year. Runner-up in senior year.