

EDUCATION

Massachusetts Institute of Technology

Cambridge, MA

Candidate for Bachelor of Science in Computer Science and Engineering | **GPA:** 4.8/5.0

Aug 2016 – June 2020

Relevant Coursework: Machine Learning; Computer Vision; Principles and Practice of Assistive Technology; Artificial Intelligence; Software Construction; Computational Structures; Probability and Random Variables; Introduction to Algorithms; Fundamentals of Programming; Intro to EECS via Interconnected Embedded Systems; Intro to C and C++; Intro to Programming through Python

Gainesville High School

Gainesville, GA

GPA: 4.31/4.0 | **Rank:** 1 out of 362

Aug 2012 – May 2016

EXPERIENCE

Apple

Cupertino, CA

Siri Software Engineering Intern

Jun – Aug 2018

- Intern on the Siri Client Team; prototyping new features for CarPlay

Brain Power

Cambridge, MA

Software Engineering Intern

Jan 2018

- Developed a cross-platform mobile application for vestibular rehabilitation using Unity; worked on backend of the application
- Wrote a script to detect accurate pupil tracking and head motion detection using OpenCV

MIT Undergraduate Student Research

MIT CSAIL: Spoken Language Systems Group

Cambridge, MA

Detecting Cognitive Impairment from Speech

Present

- Analyzing models to determine biomarkers that predictive models use to detect cognitive impairments from speech

MIT D-Lab: Mobile Technology Group

Cambridge, MA

Mobile Development for Pulmonary Disease Diagnostics

Aug – Dec 2017

- Improved functionality of mobile application and applied relevant machine learning models to application

MIT Media Lab: Living Mobile Group

Cambridge, MA

Wearable Technology to Detect and Deter Sexual Assault

Oct 2016- May 2017

- Designing, programming, and testing wearable technology: worked on both the wearable composed of microcontrollers and sensor fusion and the companion Android application to communicate assault

Wellcome Trust Sanger Institute

Hinxton, United Kingdom

Summer Software Development Intern

Jun – Aug 2017

- Development of bioinformatics workflows in Common Workflow Language, ported existing workflows to CWL
- Wrote python script to convert generate CWL files of genome analysis toolkit from GATK documentation

MIT Department of Electrical Engineering and Computer Science

Boston, MA

Course Assistant for Introductory Programming Course

Aug 2017 – Jan 2018

- Offer tutoring and help students in the Introduction Python Programming course; run office hours; perform checkoffs

SKILLS/ACTIVITIES

Skills: Python; Java; C#; Android development; HTML, CSS; Unity; Arduino C; CWL; docker; Microsoft Office; Git; Objective-C, Swift; OpenCV

GitHub: <https://github.com/pkarnati2004>

Activities: MIT Kappa Alpha Theta Sorority; MIT TechX; Society of Women Engineers; MIT South Asian Association of Students; MIT Bhangra Dance Team; MIT and Baker House Peer Mentor

LEADERSHIP/CLUBS

MIT TechX

Cambridge, MA

SpecialX Member/ xFair Corporate Relations

Present

- Manage and help organize VC and startup events, tech talks, career fairs, and other technical events across MIT

Kappa Alpha Theta

Cambridge, MA

Alumni Engagement Deputy

Present

- Lead efforts to connect current sisters with alumnae in industry to empower and promote women in tech

MIT South Asian Association

Cambridge, MA

President

Present

- Organize and lead events throughout the year to promote South Asian culture across the campus of MIT