

# ANANYA CLEETUS

ananyacleetus@gmail.com • 412-228-1989

linkedin.com/in/ananyacleetus • github.com/ananyacleetus

## Education

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University of Illinois at Urbana-Champaign  
2015 - 2019 (expected)  
B.S. Computer Science  
Business Minor

### Coursework:

Discrete Structures  
Data Structures  
Computer Architecture  
User Interface Design  
Foundations of Entrepreneurship  
System Programming (current)  
Virtual Reality (current)

## Skills

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### Languages:

Java, Python, C++, C#, HTML, CSS, Javascript, XAML

### Software:

Autodesk Inventor, SolidWorks, Eagle CAD, Microsoft Office Suite, InDesign, Photoshop, Illustrator

Tools & Frameworks: Git, Bower, Bootstrap, PhoneGap, Node

## Patents/Publications

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Patent 62,054,595  
Cleetus, Ananya. 24 June 2014.

The relevance of computer aided design in STEM education  
IEEE Networking in Education and Research Conference

Advancement of the Jaipur Foot Above-Knee Prosthetic  
QoLT/ASPIRE REU, ELeVATE, TIPeD, & REV-T Symposium

## Experience

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Microsoft | SWE intern Summer 2017

- Worked on improving and designing features for an intelligent Powerpoint Service
- Developed backend for slide data extraction and natural language processing using C++ and C#

Microsoft | Explorer Intern Summer 2016

- Created a user onboarding application for OneDrive and Microsoft Office integration
- Conducted user reasearch, created design specs and developed frontend experience and backend using C#, XAML, Aria, and Microsoft APIs

## Projects

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### Robotic Prosthetic Hand for Leprosy Victims in India

- Designed and developed a cost-effective 3D-printed prosthetic hand system that utilizes user haptic feedback to mimic hand movement in the prosthesis
- Created using simulated tendons, flex sensor feedback, and an Arduino control system, tested using the Brown AM-ULA metric and motion capture tracking
- Selected to present at the White House Science Fair and World Maker Faire in NY

### Counterfeit Drug Prevention Using Blockchain-based Verification

- Worked with a team at THE Port at CERN to design a mobile-based Blockchain verification system in order to track drug supply chain from manufacturer to consumer
- Created an automated peak analysis system as part of a low cost drug-testing capillary electrophoresis device

### Jaipur Foot Prosthetic Advancement

- Patented and developed an advancement to the Jaipur Foot Prosthetic that used a leaf spring system in order to improve foot dorsiflexion and overall flexibility

## Awards and Honors

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### Proclamation from Pittsburgh Mayor "Ananya Cleetus Day"

- Mayor Peduto of Pittsburgh declared October 5th, 2014 in the city of Pittsburgh "Ananya Cleetus Day" in honor of my STEM achievements

### White House Science Fair Exhibitor (2014)

- Selected to present Robotic Prosthetic Hand for Leprosy Victims in India

### Carnegie Science Award- Start-up Entrepreneur (2015)

- Selected as youngest ever recipient of the Carnegie Science Award for my startup, Magikstra, a social network for high school students to find mentors

### World Maker Faire (2014)

- Chosen as one of 9 internationally featured makers

### President's Gold Volunteer Service Award (2014)

## Campus Involvement

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CS 196 Freshman Honors-Lead Instructor  
UIUC Reflections Projections Conference- Content/Speakers Chair  
Association of Computing Machinery- Social Chair