

ANANYA CLEETUS

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Education

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

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

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

Microsoft | PM and SWE intern

Summer 2016

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

CS 196 Freshman Honors | Course Assistant

August 2016-Present

- Helped run freshman honors course at UIUC by organizing communications as part of the executive staff team and managing a student-led project

Projects

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

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

Society of Women Engineers- Community Service Chair

Innovation LLC- Resident Peer Leader

UIUC Reflections Projections Conference- Staff Organizer