SHM GARANGANAO ALMEDA

is an artist and computer science researcher seeking graduate opportunities to further develop their passion for Human Computer Interaction and Computer Graphics.

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EDUCATION

The College of New Jersey

B.S. in Computer Science, Fine Art Minor
August 2016 - May 2020
GPA 3.776/4

INVOLVEMENT & HONORS

Upsilon Pi Epsilon, The Computer Science Honors Society
Chapter President (2019-Present)

TCNJ Diversity and Inclusion Group in Tech for All (TCNJ DIGIT.all)
President (2019-Present)
Improved new member retention and campus involvement by spearheading rebranding effort for better inclusivity.

TCNJ Association for Computing Machinery (TCNJ ACM)
Vice President (2019-Present)

HackTCNJ Organizer
2017 · 2018 · 2019

First Place: SIGCSE 2019 ACM Student Research Competition

Anita Borg Foundation Grace Hopper Scholar 2018

Adobe WIT Scholarship Recipient 2019

CRA-WP Grace Hopper Scholar 2019

TCNJ CS Department Award
2016-2017 · 2017-2018 · 2018-2019

RESEARCH

Accessible Sign Language Recognition   *January 2018 - Present*

Mentor: Dr. Andrea Salgian, TCNJ
- Pursue interest in accessible computing, developing a Sign Language Recognition program using the LeapMotion hand-tracking Python/C++ APIs
- Train underclassmen researchers to assume and build upon the project

Poster Awarded 1st Place: *SIGCSE 2019 ACM Student Research Competition*
Published in: *SIGCSE '19 Proceedings of the 50th ACM Technical Symposium on Computer Science Education*

bPigment: A Digital Color-Mixing Model   *June 2019 - Present*

Mentors: Jose Echevarria & Stephen DiVerdi, Adobe Research Labs
- Implemented a novel color-mixing model that both emulates the behavior of pigments and produces effects unique to existing color-blending technology.
- Developed graphical painting app bPigment using Python with PIL and Tkinter to demonstrate the new color-mixing technology.

Preparing publication for Eurographics 2020

Algorithms for Protein Variant Library Design   *June 2018 - May 2019*

Mentor: Dr. Dimitris Papamichail, TCNJ
- Participated in a research team developing computational biology algorithms
- Developed a tool in Java to minimize costs of protein synthesis

Research funded by:
- TCNJ MUSE Program Summer 2018
- Computing Research Association for Widening Participation (CRA-WP) CREU Program 2018-2019, supported by NSF

Poster Presented At: *Grace Hopper Celebration 2019 Poster Session*

EXPERIENCE

The College of New Jersey

Undergraduate Researcher ....*January 2018 - Present*
Computer Science Tutor .... *September 2017 - Present*
- Adapt a deep enthusiasm for computer science to facilitate understanding and appreciation of material while assisting peers in mastering course content

Adobe Research Labs – Computational Artistry Team

Research Intern ....*June 2019 - August 2019*

Freelance Digital Artist   *2012 - Present*

- Effectively communicate with clients to create a wide range of promotional materials on commission, exceeding client expectations
- Manage social media campaigns to build and maintain a supportive following, receive customer feedback, and direct traffic to online store

MakerJam

Co-Founder, Webmaster, Lead Designer ....*January 2016 - June 2018*
- Worked with local BOE to design and initiate an annual K-12 district-wide "open hackathon" event to promote creativity and collaboration
- Developed and maintained MakerJam website and promotional graphics