

# Emmanuel Gallegos

Student, Research Assistant, Software Engineer

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## Education

- 8/21 – 5/23 **M.S. Computer Science**, *University of Illinois at Urbana-Champaign*, Champaign, IL.  
8/19 – 12/20 **B.S. Computer Science (4.0)**, *CSU East Bay*, Hayward, CA.  
6/17 – 5/19 **A.S. Mathematics, A.S. Computer Science (3.64)**, *Chabot College*, Hayward, CA.

## Work Experience

- 8/21–Present **Research Assistant**, *Parasol Lab*, Champaign, IL.  
6/20 – 8/21 **Lead Software Engineer**, *T'ena Health Technologies*, San Francisco (Remote).  
5/20 – 1/21 **Research Assistant**, *iLab*, Hayward (Remote), Sponsored by NSF & CAHSI Virtual REU.  
10/19 – 2/20 **Coding Instructor**, *KidzToPros*, Hayward + Castro Valley.  
8/17 – 2/20 **Peer Tutor**, *Private Practice*, Chabot College + CSU East Bay.

## Research

- Presented **Paper**, *Health Crisis Situation Awareness using Multiple Modalities*, SPIE Defense + Commercial Sensing Conference, (Coauthor).  
5/21  
Presented **Paper**, *Low-Resolution Infrared Temperature Analysis for Disease Situation Awareness via Machine Learning on a Mobile Platform*, SPIE Defense + Commercial Sensing Conference, (Coauthor).  
5/21  
Presented **Extended Abstract & Research Poster**, *Machine Learning Based Low-Resolution Infrared Head Localization for Disease Situation Awareness via Mobile Skin Temperature Analysis*, 32nd Annual Great Minds in Stem Conference, (Primary Author).  
10/20

## Awards, Merits, & Fellowships

- UIUC Fellow** Fully-funded [Graduate College Master's Fellowship Appointment](#) at the University of Illinois at Urbana-Champaign.
- Xtreme** In IEEE's 2019 [Xtreme 24-hour hackathon](#), which included both graduate and undergraduate students from across the globe, our team of three undergraduate students placed fifth in the West Coast region and in the **95<sup>th</sup> percentile** internationally.
- Dean's List** Member of Dean's List at CSU East Bay (3/3 semesters)
- Honors List** Member of Academic Honors List at Chabot College (3/4 semesters)

## Projects

- OutReach** Android developer and lead software engineer for the [T'ena Health Technologies](#) OutReach system, a telerehabilitation service allowing physical therapy patients to connect with their clinicians remotely.
- Covid-ID** NSF-funded research led by Dr. Lynne Grewe to help the public increase situation awareness with respect to Covid-19. My team is focused on a module that uses [infrared thermography](#) and [deep learning](#) to identify individuals that pose a high risk of fever from a mobile platform.

## Skills

- Programming** Python, Java, C++, JavaScript, Android, Bash, HTML/CSS
- Tools** TensorFlow, Google Firebase, SSH, LaTeX, Excel
- Languages** English—Advanced, Spanish—Intermediate
- Personal** Creative Writing (Sci-Fi/Fantasy), Digital Music Production, Saxophone, Clarinet, and Piano