

Emmanuel Gallegos

parasollab.web.illinois.edu/people/eg11 ◇ linkedin.com/in/emmanuel-gallegos ◇ eg11@illinois.edu

Education

University of Illinois at Urbana-Champaign	Expected May 2023
<i>Master of Science in Computer Science, GPA: 3.95</i>	<i>Champaign, IL</i>
California State University: East Bay	December 2020
<i>Bachelor of Science in Computer Science, GPA: 4.0</i>	<i>Hayward, CA</i>
Chabot College	May 2019
<i>Associate of Science in Mathematics, Associate of Science in Computer Science, GPA: 3.64</i>	<i>Hayward, CA</i>

Professional Experience

Research Assistant	August 2021 – Present
<i>Parasol Lab @ University of Illinois at Urbana-Champaign</i>	<i>Champaign, IL</i>
<ul style="list-style-type: none">• Augmented open-source C++ motion planning library with support for advanced parallel methods• Developed an open-source tool based on Mozilla ChaosMode to automatically detect flaky tests in large-scale C++ applications	
Lead Software Engineer	June 2020 – August 2021
<i>Tena Health Technologies</i>	<i>San Francisco, CA</i>
<ul style="list-style-type: none">• Single-handedly developed a functional suite of Android tele-health applications with Google Firebase as a prototype to secure funding from the Covid-19 Africa Rapid Grant Fund and other investors• With a larger team, developed two HIPAA-compliant tele-health Android applications using Amazon Web Services, which are now available on the Google Play store	
Research Assistant	May 2020 – January 2021
<i>iLab @ California State University: East Bay</i>	<i>Hayward, CA</i>
<ul style="list-style-type: none">• Trained several deep learning models using TensorFlow to detect heads in low-resolution infrared images for realtime fever detection from a mobile platform• Consolidated realtime data to a custom Google Maps interface to allow users to increase situation awareness with respect to Covid-19• This research led to two publications as a named author in the 2021 SPIE Signal Processing, Sensor/Information Fusion, and Target Recognition Conference	

Specialized Skills

Programming Languages: C++, Java, Python, JavaScript, BASH, HTML/CSS

Specializations: Android, Computer Vision, Parallel Programming, Task and Motion Planning

Tools/Libraries/APIs: Git/BitBucket, Jira, Google Firebase, AWS, TensorFlow, C++ STL, MPI, OpenMP, OpenCV, Docker, VSCode with SSH, Linux OS, SQL, React, Jupyter Notebook, ROS

Soft Skills: Public Speaking, Writing, Diversity Outreach, Leadership, Organization

Other Experiences

Black, Indigenous, and Latinx in Tech (B[U]ILT) Club Treasurer	August 2022 – Present
<i>University of Illinois at Urbana-Champaign</i>	<i>Champaign, IL</i>
Broadening Participation in Computing Fellow	August 2022 – Present
<i>University of Illinois at Urbana-Champaign</i>	<i>Champaign, IL</i>
Graduate College Fellow	August 2021 – May 2022
<i>University of Illinois at Urbana-Champaign</i>	<i>Champaign, IL</i>