

Shaping Future Digital Leaders: The **ICSpark** Initiative



SIGNIFICANCE

Hawaii students lack CS mentors despite job growth.
Only 6% of students took CS courses in 2019-2020, with 12 CS-licensed teachers statewide.
In 2018, 182 CS bachelor's degrees were awarded, but 1,500 CS jobs remain unfilled.

OUR OBJECTIVE

Near-peer mentorship for personal, educational, and professional growth
Build a strong community for talent retention
Develop future leaders with a focus on community values

SUCCESSSES

Since 2019, we have trained more than 35 mentors and 140 students
100% of respondents were satisfied or very satisfied with our events
Fantastic final projects from talented and creative young students

LEARN MORE

ICSpark
Registered Independent Organization @ UHM

Website: icspark.github.io
Instagram: @icsparkhawaii
Email: icspark@hawaii.edu

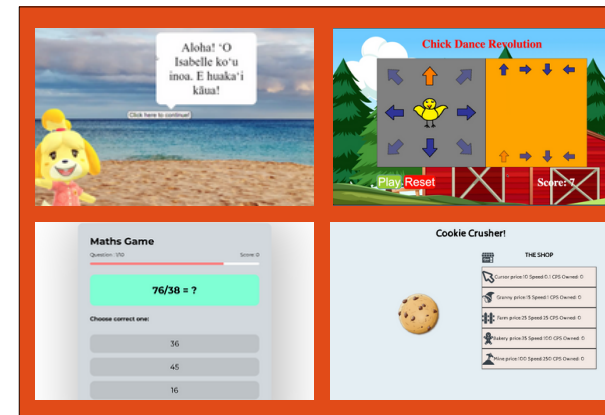
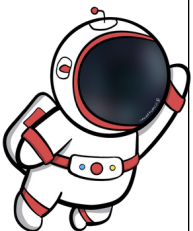
OPPORTUNITIES

For College Students: ICSpark offers fun, skill development, impressive talking points for interviews, and boosts your resume.

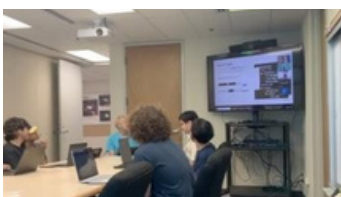
For Faculty: ICSpark offers a platform to create and introduce new coding or computer science curriculum.

For Industry: Sponsoring ICSpark events or donating to our parent 501(c)3 non-profit Technology Outreach Hawaii (TORCH) that can aid in future recruitment efforts.

For Students: ICSpark's objective is to create a fun and exciting environment to help student learn how to code!



OCTOBER



Mentor Training Begins

Mentors learn the course curriculum, create new curriculum, and develop their mentorship skills.

DECEMBER



Workshops

The mentors host a variety of public coding workshops to practice what they learned.

JANUARY TO MAY



Coding Course

Mentors facilitate weekly Saturday coding classes and provide mentorship to students.

MAY



Final Showcase

At the end of the course, students will design, develop, and present their own final project.

REFERENCES

Nguyen, T. T. & Mordecai, M. Catching Up to Move Forward: A Computer Science Education Landscape Report of Hawaii's Public Schools 2017 - 2020. (2020).
Bachelor's degrees conferred by postsecondary institutions, by field of study and state or jurisdiction: 2018-19. https://nces.ed.gov/ipeds/data/ipedsdatatools/tables/d20_319.30.asp.
Jensenbaum, L. S., Anderson, M. K., Jett, M. & Yourick, D. L. An Innovative Near-Peer Mentoring Model for Undergraduate and Secondary Students: STEM Focus. *Innov High Educ* 39, 375-385 (2014).



Mentoring students from grades 6 through 12 in the creation of software applications in a safe and fun environment