Anika Rede

2404 Fulton Str., Apt 104, Berkeley, CA 94704

arede22@berkeley.edu | (440)731-0373 | linkedin.com/in/anikarede/ | theanikarede.com | github.com/arede22

Education

University of California, Berkeley | May 2022

· <u>Major</u>: B.S. in Electrical Engineering and Computer Science, <u>Minor</u>: Linguistics
· <u>Coursework</u>: Data Structures and Algorithms, Probability & Random Processes, Optimizing Engineering Models, Multivariable Calculus, Linear Algebra, Designing Information Devices and Systems
· <u>Clubs</u>:
    o <u>Engineers Without Borders</u>: Designed/Built water distribution system for a poor community in Panama
    o <u>Association of Women in Electrical Engineering and Computer Science</u>: Current committee member organizing events with the President and Vice President
    o <u>Computer Science Kickstart</u>: Former Industrial Relations committee member

Technical Skills

Languages

o <u>Front-End</u>: HTML/CSS, JavaScript (jQuery, Nuxt.js), React (styled-components, Semantic UI)
o <u>Mobile, Back-End</u>: Java (Selenium), NumPy, Python (bs4, PyTorch, Tensorflow, SciPy), C, Swift, Kotlin

Work and Research Experience

Computational Linguistics Research Intern | ICSI | Jan 2020 to Present

· Creating translation tool for semantic components of polysynthetic languages like Karuk and Yurok

Software/Front-End Engineering Intern | Pulse Q&A | June 2019 to Aug 2019

· Automated tools to update members' profiles on web/mobile via CLI web-crawling program, find appropriate marketing audience in Chrome extension, and deploy surveys with a React single-page form
· Improved efficiency of office-space 25% with automated programs replacing hours of manual labor

Electrical Engineering Research Intern | Jadoo Tech | Feb 2019 to Sept 2019

· Derived theoretical equations to successfully model accuracy and efficiency of lab-created nanotech sensor
· Tested scale of nanosensors' effects in scope with surface area and applicability of such devices in real-time to display as marketable material to possible investors

Electrical Engineering Research Intern | Case Western Feng Labs | Feb 2015 to Aug 2018

· Quickly, accurately, and noninvasively quantified adhesive properties of metastatic cancer cells in unique lab-created microsensors (https://ieeexplore.ieee.org/document/7863470)
· Awarded as 2018 Siemens Semi-Finalist; Presented in 2018 National AJAS and JSHS research conferences

Personal Projects

Safety in Numbers App | Ongoing | github.com/arede22/safety-app

· <u>Mobile Dev</u> (Swift/Kotlin):   Tracks intended route in Berkeley and alerts emergency contacts if far off-path, suggests areas to avoid, and provides safety resources

Voice-Activated Car | Ongoing | github.com/arede22/voice-activated-car

· <u>Built from scratch</u> (Python/NumPy):   Created voice-activated car using MSP430 Launchpad, trained on open-loop and closed-loop data using PCA & Classification; Modifying to add Bluetooth and GUI

CS61B: The Game | Apr to May 2019

· <u>Game Design</u> (Java):   Built game architecture with partner in Java with inventory, avatars, enemies, and levels ramping up in difficulty and ending in a Boss Level