

DOUGLAS KRAMER

EDUCATION

University of California, Santa Cruz, Santa Cruz, CA
Bachelor of Science, Computer Science (pre-med), Expected in 06/2024
GPA: 3.78 | Dean's List Scholarship Recipient | 7x Dean's Honors

PROFESSIONAL SUMMARY

I'm a 5th year Computer Science and Pre-Med student with an excellent foundation in math and science. I am very hardworking, have excellent communication skills, and am comfortable working in a team.

I am currently applying to Master of Public Health programs to improve my understanding of public health systems, issues, and solutions. I am also interested in joining programs like the Peace Corps to gain relevant first-hand experience.

SKILLS

- **C** (4 yrs)
- **C++** and **Python** (3 yrs)
- **HTML** and **CSS** (3 yrs)
- **React Native** and **Node.js** (1 yr)
- **Git** and **GitHub** (5 yrs)
- **Data Management**: data structures, dynamic programming, data types, and algorithms
- **Development practices**: Agile, Scrum, CI, and CD
- **Hosting**: Google Firestore, Firebase, Functions
- **Architecture**: RISC V isa, pipelining, caching, etc.

PROJECTS

- **"WePee" App (React Native, HTML, CSS, Node.js, Google hosting)**: Web App to find closest restroom. Uses crowd-sourced data to find, rate, and review bathrooms. Coming soon on the AppStore and PlayStore.
- **Multi-Threaded HTTP Server (C)**: Improved the throughput of my HTTP server using pthread C library. It supports efficient PUT requests through concurrent writes (uses custom bounded buffer data type).
- **Red-Black Tree Dictionary ADT (C++)**: Built over my own binary search tree, this tree stays balanced (of optimal depth) through rotation at certain nodes. This balance provides worst case Insertion, Deletion, and Search of $O(\log n)$.
- **Company Website (HTML, CSS, Node.js)**: Built website for landscaping business. Live at dekramer-business.github.io/sestili.github.io/

WORK HISTORY

COMMUNICATIONS INTERN 07/2023 to 10/2023
Seva Foundation

- Designed data flow from source, to server, to visualization.
- Met and gathered quotes from various data integration companies.
- Built custom data connector from third party application with Airbyte.

ANALYTICS TEAM LEAD 09/2022 to 12/2022

Tech4Good Lab, Santa Cruz, CA

- As team lead, I oversaw three other members while developing the groundwork for the lab data pipeline.
- Formatted, aggregated and analyzed research data.
- Helped design onboarding exercise for new members.

WEBSITE DEVELOPER AND LANDSCAPER 05/2020 to 10/2022

Sestili Nursery Inc., Pittsburgh, PA

- Designed new website. Scales between mobile and desktop environments.
- Assisted with landscaping customer homes and gardens.

PACU HOSPITAL VOLUNTEER 01/2022 to 07/2022

Dominican Hospital, Santa Cruz, Ca

- Assisted post anesthesia care unit medical staff with cleaning patient areas, expedited intra-hospital communication.
- Instructed patients and their families on discharge care.
- Helped as needed in the emergency department.