

GARRETT LEISING

<https://github.com/garrettleising>

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PERSONAL/EDUCATION

University of California, Santa Cruz - B.S. Computer Science *September 2018 - Present*
GPA: 3.71/4.0 - Dean's Honors List
Eagle Scout

EXPERIENCES

Data Science Slugs *September 2019 - Present*
Web Development Officer

- Created, maintained, and deployed web front-end interface for company web portal.
- Researched and implemented various styling techniques to create an easy-to-use site navigation framework for effective user information offload.
- Used Devops and SRE best practices to ensure 100% uptime for the website.

Slugbotics *September 2018 - August 2019*
Software Developer

- Collaborated with a team of software and hardware engineers for the MATE competition.
- Contributed to the codebase by adding in python test suites.
- Ensured constant uptime of critical services for the internal services the engineers used.

PROJECTS

The Transparency Project *CruzHacks 2020 1st Place + Best Use of Google Cloud Winner*

- Leveraged Flask to construct routing architecture and redirect users to specific endpoints and templated APIs.
- Utilized Jinja templating to build custom filters, global variables, and functions.
- Developed visually appealing web front-end using vanilla JavaScript, HTML, Bootstrap, and CSS.
- Researched User Experience papers to implement easy-to-follow metrics about political candidate ad spending and popularity.

LZ78-Compression

- Built command line tool in C to compress and decompress files into binaries for faster transfer speeds.
- Applied data structure knowledge of tries and hash tables to efficiently store phrases while maintaining fast look up times.
- Exploited file descriptors to cache 4096 byte blocks into buffers, increasing performance.

GridCast *LAHacks 2020 submission*

- Designed greedy algorithm to find a safe and optimal path from any two points in Los Angeles.
- Utilized git and Github to simplify collaboration process with team members.
- Connected Los Angeles traffic data to Mapbox to create heatmap of crash reports

TECHNOLOGIES

Languages: Python, Java, C, Bash, JavaScript, HTML, CSS

Tools: Linux, Git, Flask, Docker