

Isaac Lo

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EDUCATION

- **University of Minnesota Twin Cities** Minneapolis, MN
B.S in Computer Science, College of Science and Engineering (GPA 3.84) 2017-2020
Completed Coursework: Data Structures, Machine Architecture, Adv. Programming Principles, Program Design
Current Coursework: Databases, Networking, Internet Programming

SKILLS

- **Tools:** Git/Gitlab, Ansible, Docker, Apache, Nginx, Bash, NixOS, Electron, RESTful, GraphQL, R
- **Languages:** Python/Django, Node.js, Angular, Vue, React, HTML, SASS/CSS, Bootstrap, Java, C/C++, OCaml, SQL

WORK

- **COUNTRY Financial** Minneapolis, MN
Software Developer Intern Summer 2019
 - ◊ Developed a customizable Call Dashboard Application, used in COUNTRY offices across the US. Wrote the software with Django, React.js, Bootstrap CSS, and HTML and deployed it with Gitlab pipelines and Ansible.
 - ◊ Currently migrating COUNTRY Financial's on-call system to Target's GoAlert solution with Docker.
- **Voy** Minneapolis, MN
App Developer 2018
 - ◊ Developed a GPS-guided tour application with the startup Voy with Nativescript and Vue.js. The app helped the company earn a TBSr Innovation award, acceptance to the YC startup school, and \$3000 of funding from the University of Minnesota Twin Cities.
- **21st Century Education** Santa Clara, CA
Software Developer Intern 2015-2017
 - ◊ Migrated an existing cloud server instance to server hardware. Configured a Linux OS with a firewall, VPN, and data storage system, reducing overall operational costs.
 - ◊ Set up a company event webpage using Jekyll, informing prospective customers and increasing event publicity.
 - ◊ Wrote a key company education application with AngularJS, Node, and HTML. Delivered a presentation to investors and shareholders about the project.

PROJECTS

- **My Playbook** <https://github.com/isaaclo123/my-playbook>
 - ◊ Created a Ansible playbook for deploying my personal applications to a debian VPS instance. Used Nginx as a reverse proxy for applications like the ZNC IRC bouncer and the Radicale calendar server.
- **NixOS Configuration** <https://github.com/isaaclo123/nix-config>
 - ◊ Created configuration files for automated and revertable software deployments for my personal computer running NixOS. NixOS is a linux distribution "with reliable and reproducible" package management allowing "atomic upgrades and rollbacks". All configuration files are written in the Nix expression language, and home-manager is used to manage user-space configuration.
- **Transcriber_bot** https://github.com/isaaclo123/transcriber_bot
 - ◊ Wrote a python bot for transcribing the text within reddit image posts, helping to aid the visually impaired. Used machine learning with OpenCV and Pytesseract to read text from images, Sqlite for logging information, and coverage/pytest for testing.
- **Leaflet** <https://github.com/Zarkoix/LeafletServer/>
 - ◊ Collaborated with a fellow student to create a minimalistic note-taking web application. Wrote Django code for the application's RESTful/GraphQL backend.
- **Prepdbot** https://github.com/isaaclo123/prepdbot_v3/
 - ◊ Wrote a python article-saving web-scraping bot for the Prepd Extemp Offline software. The bot saved and tagged over 500 articles a week, supporting Extemporaneous Speech team members in their preparation.