

Isaac Lo

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Education and Skills

- **Bachelor of Computer Science**, Expected May 2020
- **College of Science and Engineering**, University of Minnesota-Twin Cities, Minneapolis, MN
- Current GPA: 3.84 (CSE Dean's List)
- **Completed Coursework**: Data Structures, Machine Architecture, Adv. Programming Principles, Program Design
- **Current Coursework**: Databases, Networking, Internet Programming
- **Programs**: Microsoft Word, Latex, Pandoc, Jekyll, Git, Gitlab, Apache, Nginx, Linux, Electron, RESTful, GraphQL
- **Languages**: Python, Django, Javascript, AngularJS, Vue.js, React.js, HTML, SASS/CSS, Bootstrap, Java, C/C++, NixOS, OCaml, SQL

Work Experience

- **Tier 2 Application Support**, Country Financial (Summer of 2019 - Present)
 - Developed a Call Dashboard Application for displaying current Call Queue information. Created a Django backend to access call data from a legacy SQL server and created a customizable frontend using React.js, Bootstrap CSS, and HTML. Configured automated code deployments with Gitlab pipelines and Ansible. The application is currently used in Country Financial offices in Bloomington, Illinois and Minneapolis, MN, increasing call data readability and call response times.
 - Currently migrating Country Financial's on-call system to Target's GoAlert solution. Am using Docker and Ansible to deploy GoAlert code to provisioned servers. Will improve ease of use and contact.
- **Voy** <http://www.kanetus.com/> (2018)
 - Helped create a GPS-guided tour application with the startup Voy, (formerly Kanetus). Was in charge of Nativescript application development with Vue.js. While working for Kanetus, the company earned a TBSr Innovation award, was accepted to the YC startup school, and earned \$3000 of funding from the University of Minnesota Twin Cities.
- **Interim software developer**, 21st Century Education (2015-2017)
 - Migrated an existing cloud server instance to server hardware. Installed a Linux OS and configured a firewall, VPN, and data storage system. Reduced overall company operation costs and increased company security.
 - Set up a company event webpage using Jekyll, informing prospective customers and increasing event publicity.
 - Wrote an Angular JS frontend and a Node JS backend for a key company education application.

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.