

# Isaac Lo

isaaclo.site

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## EDUCATION

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- **University of Minnesota Twin Cities** Minneapolis, MN  
*B.S in Computer Science, College of Science and Engineering (GPA 3.84)* 2017-2020  
*M.S in Computer Science* Projected 2020-2022  
Completed Coursework: Data Structures, Machine Architecture, Adv. Programming Principles, Program Design  
Current Coursework: Databases, Networking, Internet Programming

## SKILLS

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- **Backend:** Python/Django, C/C++, Node.js, Java, SQL
- **Frontend:** HTML, Angular, Vue, React, SASS/CSS
- **Misc:** Bash, NixOS, OCaml, Ansible, Docker, Git/Gitlab, R, Nginx, RESTful

## WORK

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- **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

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- **Transcriber bot** (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.
- **InFarm** (devpost.com/software/minnehacks)
  - Created a SMS service to help farmers in developing countries advance their personal education and increase their agricultural productivity. Wrote the service with Twilio and Node.js. Submitted for Minnehack 2019.
- **NixOS Configuration** (github.com/isaaclo123/nix-config)
  - Created configuration files for declarative and revertable software deployments for my personal computer running NixOS. All configuration files are written in the Nix expression language, with Home-manager used for dotfile management.
- **My Playbook** (github.com/isaaclo123/my-playbook)
  - Created a Ansible playbook for consistent and declarative deployments of 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.