

# 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 3.82)* *Sept 2017 - May 2020*
- **Coursework:** Data Structures, Machine Architecture, Adv. Programming Principles, Program Design, Databases, Networking, Internet Programming, AI, Machine Learning, Software Engineering

## SKILLS

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

## WORK

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- **COUNTRY Financial** Minneapolis, MN  
*Software Developer Intern* *Summer 2019*
  - ◊ Reduced call response times by developing a call monitoring dashboard application with customizable filters and message alerts. Written with Django, React.js, Bootstrap CSS, and HTML. Deployed the code with Gitlab pipelines and Ansible. The application is currently running in production in COUNTRY offices across the US.
- **Voy** Minneapolis, MN  
*App Developer* *2018*
  - ◊ Developed a GPS-guided tour application prototype with the startup Voy for Minnedemo 2018. 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. Written with Nativescript and Vue.js
- **21st Century Education** Santa Clara, CA  
*Software Developer Intern* *2015-2017*
  - ◊ Reduced operational costs by migrating data and applications to a cloud service provider. Configured a Linux OS with a firewall, VPN, and data storage system.
  - ◊ Increased event publicity by setting up a company event webpage with Jekyll.

## PROJECTS

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- **Receipt Splitter** (github.com/isaaclo123/receipt-split)
  - ◊ Wrote a web application enabling the easy and precise splitting of receipt costs. Allows for the easy sharing of receipt costs and splitting the cost of individual receipt items amongst users. Written with Typescript, Redux, React.js, Flask, and SQL. Deployed with Docker, Ansible, and Travis CI to Google Cloud Compute.
- **Transcriber bot** (github.com/isaaclo123/transcriber\_bot)
  - ◊ Wrote a python bot for transcribing the text within reddit image posts, aiding the visually impaired. Used 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.
- **Personal Webpage** (github.com/isaaclo123/isaaclo123.github.io)
  - ◊ Designed and created my own personal webpage. Wrote the website with SASS, CSS, Webpack, and Javascript. Used minification and cached assets for web optimization.
- **System Configurations** (github.com/isaaclo123/nix-config) & (github.com/isaaclo123/my-playbook)
  - ◊ Created configuration files for declarative software deployments for my personal computer and VPS instance. Personal computer configurations are written with the NixOS declarative language and the VPS configurations are written with Ansible.