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

SKILLS

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

WORK

- **Beckman Coulter**   Minneapolis, MN
  Software Engineer   *Current*
  ◇ Writing and maintaining C# code for the Beckman Coulter Immunoassay Analyzer instrument UI.
  ◇ Took charge of Unit Test parallelization efforts, cutting UT pipeline run times by 50%, increasing developer productivity.
  ◇ Wrote Powershell scripts to automate the installation and testing of new language translation packs.
- **Cognizant**   Minneapolis, MN
  Software Developer   *2021*
  ◇ Wrote AWS Cloudformation templates to create a code pipeline for automated deployment of a web application. Developed a Java Spring Boot application connected to Amazon DynamoDB.
  ◇ Solved user issues in client applications in Microsoft Access, Ruby on Rails, Spring, and SQL.
- **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

PROJECTS

- **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/my-playbook)
  ◇ Created configuration files for declarative software deployments for my personal VPS instance using Ansible. Set up a NGINX proxy with HTTPS, a calender server, and a file sync solution.