

# DAN RASKIN

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## SKILLS

**Technologies:** Javascript, node.js, React, PostgreSQL, Git, Next.js, Heroku, Docker, HTML/CSS, Bash, Redux-Saga, Express, API, OAuth2.0, Figma, R

**Soft Skills:** Project management, technical writing, documentation, communication, facilitation, data management and analysis

## EXPERIENCE: SOFTWARE, EDUCATION AND RESEARCH

**Software Developer** (Volunteer), October 2023 – Current  
MN Environmental Justice Table

- Supporting efforts to aggregate and distribute publicly air quality data to Minneapolis residents
- Evaluating and implementing cloud hosting solutions for existing Python code-base
- Researching and developing SMS text feature

**Full-Stack Software Engineer** (Consultant), December 2022 - Current  
*Citizen Kanine*, Minneapolis MN

- Developed and maintained a **custom React web app** for client's dog-walking company, streamlining client's administrative workflow and improving employee productivity.
- Automated an invoicing feature and synchronized client data by integrating the **Quickbooks API**.
- Implemented **OAuth2 protocols** to establish secure authentication and authorization
- Established a **deployment pipeline** to manage multiple development environments
- Successfully migrated database hosting services from **Bit.io** to **Heroku Postgres**
- **Consulted** with employees on **UX** and responded to client suggestions for feature improvement.
- Enhanced app mobile view to facilitate single-page workflow for employees.
- Implemented messaging and notifications feature and to support communication between employees and supervisors

**Full-Stack Software Developer** (Student), July 2022 - November 2022  
*Prime Digital Academy*, Minneapolis MN

- Learned full-stack engineering, from programming basics to Agile app development and deployment.
- Collaborated in daily code reviews, pair-programming sessions, and weekly group projects.
- Developed a full-stack administrative tools web app for a client's business with a small team.
  - Worked with client to review their proposal, prototype the end-product and incorporate design updates based on their feedback.
  - Delegated tasks in team take app from **Figma** prototype to fully deployed solution in two weeks.
  - Implemented **automated password retrieval** for employee accounts.
  - Developed a feature to generates a formatted .csv file of client for a streamlined invoicing process, resulting in a **~10-hour reduction in monthly administrative labor**.
  - Technologies: **Javascript, React/Redux/Saga, Node.js, PostgreSQL, MUI**
- Designed and built a drum machine web app for in-browser music making in two-week sprint.
  - Applied web audio library **tone.js** to **React**.
  - Solved a complex challenge with multiple React states running separate clocks, allowing users to edit rhythm sequence while time clock is running.

**Special Education Assistant**, September 2019 - May 2022

*Minneapolis Public Schools*, Minneapolis MN

- Provided in-class academic and behavioral support to middle school students with cognitive or behavioral disabilities. Assisted classroom teachers in lesson planning and curriculum implementation.
- Developed and implemented student education plans in collaboration with teachers, case workers and parents. Adapted student education plans to remote classroom environments.

**Science Organizer**, May 2019 - July 2021

*Science for the People - Twin Cities*, Minneapolis MN

- Sustained communications for a 200+ person mailing list.
- Facilitated weekly organizing meetings and coordinated ongoing working groups.
- Organized team of 15 + scientists to pipeline review permit applications to Minnesota Pollution Control Agency (MPCA). Developed strategy with legal experts for public input to agency review processes.
- Conducted literature review across multiple disciplines, synthesized results and co-authored critiques of pipeline permit application. Results submitted as public comment to MPCA.
- Met with MPCA permitting team to discuss permits and role of independent scientific review.

**Agricultural Researcher**, July 2014 – July 2019

*University of Minnesota*, Saint Paul MN

- Researched sustainable agricultural systems, cover crops, and soil nutrient cycling.
- Published peer-reviewed scientific research in a top disciplinary journal. Co-authored successful research grant applications. Delivered >\$300k in funding from public and private sources.
- Managed multi-site, multi-year research projects. Coordinated field maintenance and data collection with research station staff, field crew, and lab technicians. Supervised teams of 5-10.
- Conducted statistical data analysis, reviewed and assessed colleague's data and code, using **R** and **SAS**. Cleaned and organized a dataset from a three-year project with a history of multiple project leads.
- Designed and implemented field research projects lasting one to three years as part of larger research initiatives. Developed and adapted new protocols.
- Communicated findings to farmers, agricultural professionals and granting agencies through UMN-Extension programming events, field days, farmer meetings and publications.
- Taught undergraduate 'Introduction to Biological Sciences' lab course, supporting non-majors learn fundamental concepts using a problem-based learning curriculum.

## **EDUCATION**

**Full Stack Software Engineering Certification** | Nov 2022

*Prime Digital Academy*, Minneapolis, MN

**M.S. Agronomy** | July 2016

*University of Minnesota*, Saint Paul, MN

**B.A. Environmental Studies** | May 2010

*Bard College*, Annandale-on-Hudson, NY