DAN RASKIN

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SKILLS

Technologies: Javascript | Node.js | React | Express | Next.js | Python | Heroku | HTML | CSS | Git | Redux | Axios | Express | PostgreSQL | REST API | Bash | R | C# | Material UI |

Soft Skills: Project Management | Technical Writing | Collaboration | Group Facilitation | Organization | Written Communication

EXPERIENCE: SOFTWARE, EDUCATION AND RESEARCH

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

- Continued the development of a **custom React web app**, for client's dog-walking company, increasing its value and usability to client and their employees.
- Automated an invoicing feature and synchronized client data by integrating the **Quickbooks API**.
- Learned and implemented **OAuth2 protocols** to establish secure authentication and authorization.
- Enhanced the app's mobile map view to allow employees to efficiently track services provided.
- Built a notes feature enabling effective communication between employees and supervisors.
- Established a **deployment pipeline** to managed multiple development environments
- Successfully migrated database hosting services from **Bit.io** to **Heroku Postgres**

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 scheduling and invoicing 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 within team to take app from 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

- Managed multi-site, multi-year research projects. Coordinated field maintenance data collection schedule between 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 dataset from a three-year project with a history of multiple project leads.
- Researched sustainable agricultural systems, cover crops, and soil nutrient cycling.
- 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.
- 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.
- Chaired planning committee of student-led, interdisciplinary food system symposium. Invited 20+ scholars from across the country to present on critical issues in agriculture.
- 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