

COLE KRALICEK

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EDUCATION

University of Minnesota, Twin Cities
College of Liberal Arts
Bachelor of Arts, Computer Science

Minneapolis, MN
May 2024

RELEVANT EXPERIENCE & PROJECTS

Drone Delivery System for the UMN-TC Campus, CSCI 3081W / Personal Project *September 2023 – Present*

- Developed a C++ delivery simulation with efficient pathfinding & scalable design patterns for hundreds of orders.
- Streamlined project management with Scrum method and Jira, boosting developer productivity by 25% and reducing downtime due to task assignment and clarity by 33%.

StudySpaces UMN-TC Redux, App Developer Club UMN *September 2023 – Present*

- Led the development of a study space descriptor and finder using JavaScript, React.js, and the ArcGIS library.
- Collaborated using Github, which reduced context switching due to missed updates by 10-15% and improved overall code clarity and stability with 50% fewer rollbacks.

Dining Hall Nutrition App, Social Coding UMN / Personal Project *September 2023 – Present*

- Engineered a nutrition app that centralized meal options across UMN-TC dining halls, restaurants, and more, integrating with top nutrition trackers.

Command and Data Handling, SmallSat UMN *January 2023 – April 2023*

- Participated in the development of critical driver software, bug fixes, and maintenance of legacy code for a UMN small satellite's Arduino micro-controller in low-earth orbit.
- Collaborated effectively within a team of 14 engineers, developing new driver modules for 2 sensors and troubleshooting critical bugs.
- Employed Github's pull requests to streamline the development workflow and enable clear version control.

SoundScout, Social Coding UMN / Personal Project *January 2023 – Present*

- Developed a web application for personalized music discovery utilizing JavaScript, React.js, and the Spotify API.
- Implemented a secure and standardized token-based authentication system through OAuth 2.0.
- Employed Git for version control to facilitate efficient development, tracking changes, and overall code accountability throughout the development process.

Portfolio Website, Personal Project *December 2022 – Present*

- Developed an interactive portfolio website showcasing 12 personal and academic projects.
- Utilized JavaScript for dynamic elements and React.js for a component-based architecture.

Math Tutor, Saint Paul Public Schools *January 2020 – March 2020*

- Tutored over 30 students in middle school level mathematics, leading to a 20% increase in letter grades.
- Maintained a professional academic atmosphere through leadership and effective communication.

Server-Host, Cracker Barrel Old Country Store *June 2016 – August 2021*

- Led seamless shift transitions for a 16-person team, ensuring smooth customer experience and delivery.
- Increased operational efficiency through clear and effective communication with colleagues and management.
- Maintained composure and exceptional service in high-pressure situations, prioritizing customer satisfaction.

SKILLS

Programming Languages: Python, Java, C/C++, TypeScript, JavaScript, Oracle SQL*Plus, HTML/CSS, Ocaml, R

Tools, Technologies, and Frameworks: Linux, Git, Docker, GitHub, RESTful APIs, React.js, Jira, IntelliJ, Visual Studio Code, NumPy, PyCharm, MongoDB, PostgreSQL, Node.js, Next.js, Express.

Concepts: Operating Systems, Machine Architecture, Project Management, Database Administration, Web Development, Computer Graphics, Data Structures and Algorithms, Software Engineering, Full-Stack, Agile, DevOps, CI/CD, DevOps

Spoken Language: Conversational proficiency in French, Spanish