

# Jackson Joseph Rini

[jacksonrini3@gmail.com](mailto:jacksonrini3@gmail.com) / (216) 536-5431 / [LinkedIn](#) / [Portfolio](#)

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## EDUCATION

### University of Colorado • Boulder, CO

- Bachelor of Science in Computer Science (Expected May 2024)
  - Relevant Completed Coursework: Data Science with Probability and Statistics, Software Development and Management, Computer Systems, Data Structures, Cybersecurity, Robotics, Advanced Data Science, Design and Analysis of Operating Systems, Data Mining, Computer Security
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## TECHNICAL SKILLS

**Experience with Programming Languages, Software and Systems:** C++, C, Java, HTML, CSS, MySQL, Node.JS, React.JS, Scala, Javascript, Python, Pandas, NumPy, SciPy, Seaborn, Selenium, Pytesseract, OCRmyPDF, matplotlib, sklearn, Git, OnCore Clinical Trials Management System, Epic Electronic Health Record, REDCap, Florence eBinders, AWS

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## RELEVANT EDUCATION PROJECTS

### Superpowers, Senior Capstone Project • University of Colorado Boulder (August 2023 – Current)

- Languages Used: Python, MySQL, HTML, CSS, Javascript, Typescript, Git, AWS
- Automated the entire Venture Investment Opportunity Discovery and Evaluation process.
- Created and maintained MySql relational database through AWS and developed data scraping tools.

### Data Mining and Used Cars • University of Colorado Boulder (August - December 2023)

- Language Used: Python, sklearn, Git
  - Developed algorithm that predicts future car prices to aid in car purchasing decisions.
  - Utilizes Random Forest and Gradient Boost Regression with machine learning hyperparameter optimization.
  - Used Agile Scrum methodology to complete the project.
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## RELEVANT WORK EXPERIENCE

### Vanderbilt University Medical Center • Nashville, TN (May - August 2023)

Business Intelligence and Analytics Intern: Streamlined business processes and optimized workflow

- Developed processes to automate the creation of sponsor financial invoices within the OnCore clinical trials management system (CTMS) for the Vanderbilt-Ingram Cancer Center.
- Generated incremental annual revenue of >\$500K and reduced manual work performed by staff.
- Migrated cardiovascular research project data from an outdated software platform into the OnCore CTMS.
- Utilized Selenium, Optimal Character Recognition Software, and data scrapers to complete projects.

### Digital Global Systems • Tyson, VA (May - August 2022)

Network Optimization Intern: Developed programs in C to change levels of gain of radio frequency boards.

- Optimized Python program that records and graphs gain data using NumPy, matplotlib, and Pandas.
- Created Python scripts to download Federal Communications Commission frequency data
- Performed data preprocessing and cleaning.

### FortyAU • Nashville, TN (January - August 2021)

Web Development Intern: Developed website pages and forms for clients, completed website quality assurance

- Developed pages and forms for Preston Taylor Ministries using JavaScript, CSS, HTML, and React. (<https://prestontaylorministries.org/about/>)
- Created pages and forms for MedRenewel, a medical license renewal company using JavaScript, CSS, HTML, and React. (<https://medrenewal.com/>)
- Bootstrapped CrushConnection app.
- Constructed pages for HomeworkHotline, a tutoring service in Nashville using JavaScript, CSS, HTML, and React. (<https://homeworkhotline.info/>)
- Performed quality assurance for ForeFront Telecare (<https://accesstelecare.com/specialties/behavioral-health/>), Potluck (<https://www.potluck.us/>), and Cumberland.

### Cleveland Clinic • Cleveland, OH (March - May 2018)

Web Development Intern: Assisted in website creation using JavaScript and HTML

- Enhanced patient information form management processes.
- Used SQL to organize data for patient information more efficiently.