MIRAJ PATEL

28 Joyner Court, Lawrenceville, NJ 08648 ♦ (609) 233-1335 ♦ miraj.patel@richmond.edu ♦ [LinkedIn](#) ♦ [GitHub](#)

EDUCATION

University of Richmond Richmond, VA
- **Bachelor of Science:** Computer Science; Minor: Economics *May 2023*
- Related Coursework: Data Structures, Discrete Structures, Intro to Data Science, Econometrics, Calculus I,II, & III, Computer Organization, Software Systems Development, Database Systems, Algorithms, Human-Computer Interaction

PROFESSIONAL EXPERIENCE

B.A.P.S. Swaminarayan Sanstha **Robinsville, NJ**
Software Engineer Intern *June 2022 – Present*
- Administered tour management software that over 100+ organizations and families utilize by delivering innovative and scalable input during meetings, assessing bugs, assisting with account set up, and performing various software functions
- Increased service request turnaround by taking initiative to implement a systematic notification change in the tour management workflow, allowing for all parties to become more efficient, leading to a 30% decrease in time spent on logistics
- Generated updates towards a navigable interface for volunteers to track and manage tours by learning different aspects of HTML, CSS, PHP and SQL, ultimately leading to a 20% decrease in negative feedback towards the tour management software

The Collegian **Richmond, VA**
Web & Application Developer *September 2021 – Present*
- Managed all aspects of web design, implementation, administration, and support processes to effectively provide exemplary service
- Utilized HTML, CSS, and JavaScript to generate static and dynamic professional websites whose functionality catered to the needs of the student body newspaper
- Reinforced and furthered understanding of front-end development, not limited to proper design principles, heightening user functionality and experience, and web development life cycle

UR Resident Life & Housing **Richmond, VA**
Resident Assistant *August 2021 – Present*
- Coordinated vital resources on campus to 100+ residents, providing the tools needed to create a positive environment for students at the University of Richmond
- Exceeded the responsibilities of being a role model and leader in a community by protecting the expectations set by the University of Richmond and creating a safe, inclusive community for residents, inducing an area with 0 violations
- Organized professional development programs for 80+ RA's and residents resulting in a 20% increase in community engagement

The Law Office of Darrell Robinson **Upper Marlboro MD**
Business Technology Management Intern *May 2021 – July 2021*
- Prepared briefs, motions, medical, & billing records + updated the management software PracticePanther logs to match new information
- Coordinated and established clear communication between colleagues to discuss nuances of cases through various automated notification methods (ie. Microsoft Teams), ensuring the innovation of new ideas and perspectives
- Analyzed and organized memos, client records, and cases to determine their significance & plan their distribution to colleagues

PROJECTS & ACTIVITIES

Movie Recommender | *Project* *September 2022*
- Incorporated commonly used data science and machine learning libraries in Python such as Pandas, NumPy, Sci-Kit Learn to create an algorithm to recommend movies based off a user's favorite movie
- Attained exposure towards the field of machine learning, more specifically content based recommendation systems, leaving a newfound curiosity for data science
- Comprehended & applied a new metric called Cosine Similarity, a measurement bet. two vectors that is useful within text analysis

Flight Widget | *Project* *September 2022*
- Developed a fullstack widget that displays the time, gate, destination and status of departing flights for an airline company using Node.js , React, JSX, CSS, and Astra DB
- Organized a backend for the widget using Node.js so that REST API calls could be made to the Astra database, leading to a deeper personal conception of architectural styles and design principles
- Enhanced front-end development skills by working with the languages CSS and JSX and the React, a JavaScript library

MIPS Assembler and Processor | *Computer Organization* *February 2022*
- Designed and wrote 800+ lines of object oriented C++ which reads a file written in assembly and then outputs a binary translation/machine code of the MIPS instructions
- Connected the MIPS assembler to a simulated processor using the software Logism-evolution
- Analyzed how computers are organized architecturally, grasped a further familiarity and comfortability of C++, and cultivated critical thinking skills by managing logical operators when creating the machine code processor.

International Collegiate Programming Competition | *Competitive Programmer* *February 2022*
- Performed in the annual multi-tiered competitive programming competition among the universities of the world
- Collaborated with two other team members to effectively produce solutions to challenging technical questions

TECHNICAL SKILLS

Skills: C++, Java, Python, HTML, CSS, JavaScript, JSX, R, SQL, Node.js, React, Microsoft Excel, Canva
Languages: English (Fluent), Gujarati (Fluent), Working Proficiency in Latin and French