Bhargav Panchal

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EDUCATION

- **Virginia Tech**, Blacksburg, VA
  Bachelor of Computer Science — May 2024
- **Reynolds Community College**, Richmond, VA
  Associates of Computer Science — May 2022

SKILLS

- **Technical Skills**: Java, C, C++, Swift, Python, JavaScript, HTML, CSS, MySQL, Express, Node, React
- **Soft Skills**: Teamwork, Communication, Problem Solving, Adaptability, Time Management, Critical Thinking
- **Technologies**: Spring Boot, Visual Studio, Microsoft SQL Server, Eclipse, IntelliJ, WebStorm

PROJECTS

- **Chess Board AI (Computer Vision)** — March 2024 - May 2024
  - Engineered a computer vision-based tool using Python and OpenCV to analyze chessboard images and suggest optimal moves, improving move decision time by 20%.
  - Implemented advanced image processing techniques such as Hough Transform for line detection and Canny Edge Detection for enhanced edge clarity, increasing accuracy by 30%; utilized Roboflow for data management, reducing model training time by 25%.
- **Project Database System (MERN Stack)** — January 2024 - May 2024
  - Developed a comprehensive web application for CS4704 at Virginia Tech using the MERN stack (MongoDB, Express.js, React.js, Node.js), focusing on front end development with React.js which supported over 150 students in team collaboration and project tracking.
  - Integrated Docker for application containerization, which standardized development environments across 4 development teams and reduced deployment issues by 50%.
- **Travel Guide (Swift)** — January 2023 - March 2023
  - Developed an interactive iOS travel guide application with Agile development using Swift and XCode, featuring dynamic navigation through multiple views; this app was used by 50+ users after deployment.
  - Utilized Git for version control and incorporated Model-View-Controller architectural patterns to separate concerns which enhanced code re-usability by 35% and improved maintainability.
- **Bank Management System (Java, SQL)** — November 2022 - January 2023
  - Engineered a bank management system with Java using Eclipse IDE, focusing on robust customer account and transaction management features and implementing efficient data structures to handle over 10,000 transactions.
  - Integrated JDBC for SQL database connectivity, which enhanced data security and reliability, leading to a 40% reduction in transaction processing errors.

EXPERIENCE

- **Advising Assistant** — August 2021 – May 2022
  Advising Services J. Sargeant Reynolds Community College, Richmond, VA
  - Managed the college application process for 300+ students annually, resulting in a 25% increase in on-time applications and 15% growth in student enrollment for the upcoming semester.
  - Handled 50+ student interactions daily, providing detailed, personalized, and friendly service.

RECOGNITION

- Phi Theta Kappa Honor Society — December 2021 – May 2024
- President's Honor Roll — August 2020 - May 2022

LEADERSHIP

- **Hindu YUVA at VT (PRESIDENT)** — August 2022 – May 2024
  - Lead cultural and educational initiatives as President, growing membership by 40% to include over 200 students annually. Organized and led 30+ events per year, including workshops, discussions, and cultural celebrations that promoted diversity and inclusion on campus.
- **CS Squared** — August 2022 – May 2024
  - Participated in an organization dedicated to leveraging software development skills for community service. Mentored weekly tech sessions that contributed to a 25% improvement in class performance among participants.

CERTIFICATES

- **Learning SVG** - LinkedIn — October 2023
- **React: Design Patterns** - LinkedIn — October 2023