

# Shardul Dhongade

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## EDUCATION

<b>Virginia Tech</b> <i>Masters of Engineering in Computer Science</i>	Blacksburg, VA August 2024 – May 2025
<b>Virginia Tech</b> <i>Bachelors of Science in Computer Science</i> <ul style="list-style-type: none"><li>President - Association for Computing Machinery (ACM)</li><li>President's List, Dean's List (All Semesters)</li></ul>	Blacksburg, VA August 2021 – May 2024

## TECHNICAL SKILLS & CERTIFICATIONS

**Programming Languages:** Java, Python, JavaScript/TypeScript, C/C++, SQL, R, Kotlin  
**Front-End:** React.js, Next.js, Angular, Vue.js, HTML/CSS  
**Back-End:** Node.js, Flask, Express.js, REST API, MySQL, MongoDB  
**DevOps:** GitLab/GitHub, Docker, Containers, CI/CD, JIRA, Azure  
**Certifications:** Machine Learning Specialization (Coursera), Fullstack Development Bootcamp (Udemy),  
Advanced Technical Interview Prep (CodePath)

## EXPERIENCE

<b>Software Engineering Intern</b> <i>Coherent Corp.</i> <ul style="list-style-type: none"><li>Designed and implemented a production-level application, expanding EHS platform capabilities for third-party services and contractors</li><li>Utilized Angular and Bootstrap to build a responsive and user-friendly website</li><li>Applied JavaScript logic in backend to streamline data handling for Oracle forms and resources</li><li>Converted application to native Android app with Kotlin and Java, slated for release Q4 2024</li></ul>	June 2024 – September 2024 Santa Clara, CA
<b>Software Engineering Intern</b> <i>GEICO</i> <ul style="list-style-type: none"><li>Collaborated with the internal tooling team on a virtual chatbot to increase employee engagement</li><li>Built chatbot using Power Virtual Assistant; implemented complex data handling and logic with PowerFx coding</li><li>Applied React and Node to set up bot deployment onto Microsoft SharePoint, and configured Azure AD for secure user authentication</li><li>Practiced Agile development methodology and DevOps processes to reduce development time by 20%</li></ul>	June 2023 – August 2023 Remote
<b>Undergraduate Research Assistant</b> <i>Center for Bioinspired Science and Technology Lab</i> <ul style="list-style-type: none"><li>Analyzed bat navigation abilities using advanced clustering techniques and GPS data from forest environments in Brunei, utilizing TensorFlow and Python's ML libraries</li><li>Applied Principal Component Analysis (PCA) to assess variability and deformations in bat actuators developed by Mechanical and Electrical teams</li><li>Utilized Tcl/Tk for coding in HyperWorks to write scripts for data collection on horseshoe bat ears</li><li>Team awarded the <u>Robert W. Young Award</u> for Undergraduate Research in Acoustics</li></ul>	August 2021 – December 2023 Blacksburg, VA

## PROJECTS

<b>SkillSprint</b>   <i>Flask, Python, REST APIs, JavaScript, Next.js, Tailwind</i> <ul style="list-style-type: none"><li>Developed a personalized job study guide application that generates tailored prep resources from a job posting link</li><li>Implemented web scraping to extract job information, and leveraged the OpenAI API and YouTube Data API to categorize job requirements by tech stack and generate tailored study materials.</li><li>Built a Flask backend to integrate REST APIs and process data for seamless communication and content delivery</li><li>Designed a dynamic Next.js frontend for smooth interaction, incorporating Tailwind CSS for an intuitive UI/UX.</li></ul>
<b>ML Blog Site</b>   <i>Python, R, RStudio, Quarto, ML Libraries</i> <ul style="list-style-type: none"><li>Created a dynamic blog site using R and Python, showcasing various Machine Learning techniques</li><li>Authored multiple blogs detailing ML processes, from data/exploratory analysis to algorithm application</li><li>Rendered and published site with Quarto and hosted on GitHub pages</li></ul>