

Shardul Dhongade

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EDUCATION

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| Virginia Tech
<i>Masters of Engineering in Computer Science</i>
• <i>Relevant Coursework:</i> Deep Learning, Web App Development, Mobile App Development | Blacksburg, VA
August 2024 – May 2025 |
| Virginia Tech
<i>Bachelors of Science in Computer Science</i>
• President - Association for Computing Machinery (ACM)
• <i>Relevant Coursework:</i> Software Engineering, Data Structures, Algorithms, Machine Learning, Computer Systems | 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, AWS, Langchain, Docker, Containers, Kubernetes, CI/CD, JIRA, Azure
Certifications: Machine Learning Specialization (Coursera), Fullstack Development Bootcamp (Udemy),
Advanced Technical Interview Prep (CodePath)

EXPERIENCE

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| Software Engineering Intern
<i>Coherent Corp.</i>
• Designed and implemented a responsive, production-grade application using Angular and Bootstrap , expanding EHS platform functionalities to over 25 third-party services and contractors
• Developed backend JavaScript logic using Form.io, optimizing data handling and manual form creation by 50%
• Converted application to native Android app with Kotlin and Java for contractors, slated for release Q4 2024 | June 2024 – September 2024
Santa Clara, CA |
| Software Engineering Intern
<i>GEICO</i>
• Created a virtual chatbot for company intranet with Power Virtual Assistant and PowerFx programming, reducing the volume of support tickets by automating responses to common inquiries
• Applied React and Node to set up deployment to SharePoint; configured Azure AD for secure user authentication
• Implemented Agile development practices with automated workflows, reducing development cycle time by 20% | June 2023 – August 2023
Remote |
| Undergraduate Research Assistant
<i>Center for Bioinspired Science and Technology Lab</i>
• Applied K-Means Clustering to GPS and sonar echoes data from Brunei forests using TensorFlow and Python , grouping land sections by density, flatness, and openness to enhance understanding of bat navigation
• Applied Principal Component Analysis to assess variability and deformations in 5+ bat wing configurations
• Utilized Tcl/Tk for coding in HyperWorks to write scripts for data collection on horseshoe bat ears
• Team awarded the <u>Robert W. Young Award</u> for Undergraduate Research in Acoustics | August 2021 – December 2023
Blacksburg, VA |

PROJECTS

- SkillSprint | *Flask, Python, REST APIs, JavaScript, Next.js, Tailwind*
• Developed a personalized job study guide application that generates tailored prep resources from a job posting link
• 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.
• Built a **Flask** backend to integrate **REST APIs** and process data for smooth communication and content delivery
• Designed a responsive **Next.js** frontend for seamless interaction with **Tailwind CSS** for an intuitive UI/UX
- ML Blog Site | *Python, R, Quarto, ML Libraries*
• Created a blog site using **R** and **Python** on RStudio, showcasing 7+ Machine Learning techniques
• Authored 5 blogs detailing ML processes, from data/exploratory analysis to algorithm application
• Rendered and published site with Quarto and hosted on GitHub pages