Shardul Dhongade

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Education

Virginia Tech — Blacksburg, VA
Masters of Engineering in Computer Science — *August 2024 – May 2025*

Virginia Tech — Blacksburg, VA
Bachelors of Science in Computer Science — *August 2021 – May 2024*

- President - Association for Computing Machinery (ACM)
- President's List, Dean's List (All Semesters)

Technical Skills

Programming Languages: Java, Python, JavaScript/TypeScript, C/C++, SQL, R
Front-End: React.js, Next.js, Angular, Vue.js, HTML/CSS
Back-End: Node.js, Express.js, MySQL, MongoDB
DevOps: GitLab/GitHub, Docker, Containers, CI/CD, Jira

Experience

Software Engineering Intern — June 2024 – Present
Coherent Corp. — *Santa Clara, CA*

- Designed and implemented a production-level application, expanding EHS platform capabilities for third-party services and contractors
- Utilized Angular and Bootstrap to build a responsive and user-friendly website
- Integrated Form.io with Oracle to create forms and data resources for the application
- Applied JavaScript logic in backend to streamline data handling and ensure accurate data placement
- Converted application to native Android app with Capacitor and Java, slated for release Q4 2024

Software Engineering Intern — June 2023 – August 2023
GEICO — *Remote*

- Collaborated with the internal tooling team on a virtual chatbot to increase employee engagement
- Built chatbot using Power Virtual Assistant; implemented complex data handling and logic with PowerFx coding
- Applied React and Node to set up bot deployment onto Microsoft SharePoint, and configured Azure AD for secure user authentication
- Practiced Agile development methodology and DevOps processes to reduce development time

Undergraduate Research Assistant — August 2021 – December 2023
Center for Bioinspired Science and Technology Lab — *Blacksburg, VA*

- Analyzed bat navigation abilities using advanced clustering techniques and GPS data from forest environments in Brunei, utilizing TensorFlow and Python's ML libraries
- Applied Principal Component Analysis (PCA) to assess variability and deformations in bat actuators developed by Mechanical and Electrical teams
- Utilized Tcl/Tk for coding in HyperWorks to write scripts for data collection on horseshoe bat ears
- Team awarded the Robert W. Young Award for Undergraduate Research in Acoustics

Projects

ML Blog Site | *Python, R, RStudio, Quarto, ML Libraries* — October 2023 - December 2023

- Created a dynamic blog site using R and Python, showcasing various ML techniques
- Authored multiple blogs detailing ML processes, from data/exploratory analysis to algorithm application
- Implemented precision/accuracy metrics and visualizations, enhancing the educational value of the content
- Rendered and published site with Quarto and hosted on GitHub pages

Certifications

Coursera: Machine Learning Specialization
Udemy: The Complete 2023 Web Development Bootcamp
CodePath: Advanced Technical Interview Prep