Arnav Thareja

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University of Washington Master of Science, Computer Science	Expected June 2024 Seattle, WA
Coursework: Machine Learning, Deep Learning, Reinforcement Learning, Dee	ep Robotic Learning
University of Washington Bachelor of Science, Computer Science and Mathematics GPA: 3.95	Expected December 2023 Seattle, WA
Coursework: Algorithms, Robotics, Computer Vision, Databases, Systems Pro	gramming, Optimization, Probability
Experience	
Databricks Software Engineer Intern	June 2023 – September 2023 Bellevue, WA
 Working as part of the benchmarking infrastructure team enabling performance Extended internal benchmarking framework to support a suite of profiling op Buliding an internal tool to simplify profiler result access, visualization, and co 	e benchmarking across Databricks products tions for integrated profiler omparison
Personal Robotics Lab Undergraduate Researcher	May 2021 – Present Seattle, WA
 Vorking on multi-agent autonomous navigation and task anotation with Multi- Created an open-source architecture for completing pushing-based manipulati Designed and built motion planning algorithms for non-holonomic multi-agent Extended and tuned model predictive control for the multi-agent domain to e Built ROS (Robot Operating System) wrappers around algorithms to enable ea Sped up robot trajectory comparison framework by 50x by directly analyzing Demonstrated and tested system capabilities and translation to real-world er 	on tasks with multiple non-holonomic robots at navigation and task allocation in C++ eliminate collisions and improve robustness asy interfacing with existing systems ROS bags through the rosbag Python API avironments on physical robots
University of Washington Teaching Assistant	March 2023 – June 2023 <i>Seattle,</i> WA
 Led lab sections and lab office hours for CSE 478: Autonomous Robotics Assisted students with conceptual robotics questions and robot software and 	l hardware issues
Oracle Cloud Infrastructure Software Engineer Intern	June 2022 – September 2022 <i>Seattle,</i> WA
 Worked as a part of the Virtual Machines Efficiency team within Oracle Cloud Designed and built a system to monitor usage of reserved compute resources Defined an actionable implementation strategy to address and fulfill system r Created internal usage metrics, dashboards, and alarms using Java and Oracle 	d Infrastructure (OCI) Compute and identify resources to be reclaimed equirements Monitoring Query Language (MQL)
Projects	
Angles DubHacks 2020 – Newsprint Track Finalist (Top 3 out of 70+ Projects)	devpost.com/software/angles-sqdzlt
- Developed a Chrome Extension that suggests news articles of opposite bias v	when a news website is visited

- Leveraged Google Cloud NLP with JavaScript to extract keywords from news articles to use in our opposite bias algorithm
- Selected as a finalist in the Newsprint track and recognized as one of the top 3 projects out of over 70 projects

Yearbook 2020 | Personal Project

- Designed and developed a web application for students and graduates to sign yearbooks virtually during COVID-19

- Utilized JavaScript, HTML, CSS, and Google Firebase for user authentication, cloud storage, and NoSQL database

Skills

Education

yearbook-hhs.web.app