

# RITVIK BHAWNANI

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## EDUCATION

University of Wisconsin-Madison

*B.S. Computer Sciences, expected May 2022*

- GPA: 4.0/4.0
- Dean's List (all semesters)

## TECHNICAL SKILLS

Programming Languages

Java, Python, Go, JavaScript, TypeScript, C, C++, C#, Kotlin, HTML/CSS, SQL, MongoDB

Technologies and Frameworks

React, React-Native, Express, Qt, PyTorch, TensorFlow, Scikit-Learn, Flask, Git, Agile/SCRUM, AWS, Docker

## WORK/RESEARCH EXPERIENCE

Tesla, Palo Alto, CA

*Software Engineer Intern, September 2021 – Present*

- Designing, prototyping, and developing UI interfaces and architectures.
- Collaborating with a cross-functional team of hardware engineers, application/UI software engineers, QA/validation engineers, and designers to enhance in-car customer experiences.

Trusted CI, The NSF (National Science Foundation) Cybersecurity Center of Excellence, Madison, WI

*Research Assistant, January 2021 – September 2021*

- Co-authored a report with leading experts in cybersecurity to help software developers integrate security tools into DevOps workflows.
- Evaluated the reliability of dependency and static analysis tools on large-scale open-source projects.
- Interviewed members of NSF-funded initiatives to assess the software used in scientific computing.

Open Systems International, Medina, MN

*Software Engineer Intern, May 2020 – August 2020*

- Revamped OSI's mobile and desktop UI, which is undergoing deployment to thousands of field crews.
- Created a search tool using Xamarin Forms' cross-platform library and MVVM design pattern to improve user efficiency.
- Designed, prototyped, and developed UI components, including search, map, and tasks using Agile development and Scrum methodologies.
- Leveraged RESTful web services like the Bing Maps API to perform geocoding and support address searching.

University of Wisconsin-Madison, Madison, WI

*Research Assistant, January 2019 – May 2019*

- Worked with a Faculty Associate in the Computer Sciences Department to gain expertise in online algorithms with an emphasis on algorithm engineering for the k-Server Problem.
- Implemented 5 algorithms to experimentally analyze their performance under Bijective Analysis.

Softdator Solutions, Dubai, UAE

*Software Engineer Intern, July 2019 – August 2019*

- Resolved 200+ customer questions by coordinating with developers to enhance the user experience.
- Conducted manual and model-based testing using fleet reports to identify bugs and UI improvements.
- Modeled the backend infrastructure of the fleet monitoring software with senior developers.