

# Aashish Gottipati

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## Education

<b>Doctor of Philosophy, Computer Science</b>	<b>GPA: 3.50</b>	May 2027
University of Texas Austin		Austin, TX
<b>Master of Science, Computer Science</b>	<b>GPA: 3.95</b>	May 2022
University of Utah		Salt Lake City, UT
<b>Bachelor of Science, Computer Science</b>	<b>GPA: 3.96</b>	May 2021
University of Utah		Salt Lake City, UT
<b>Associate of Science, General Studies</b>	<b>GPA: 3.96</b>	August 2018
Weber State University		Ogden, UT

## Technical Skills

Python, C#, Java, C++, C, Swift, Matlab	JavaScript, HTML, CSS	AWS, Jira, GIT, Docker, MySQL
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## Experience

<b>Graduate Teaching Assistant</b>	August 2022 – Present
University of Texas at Austin	Austin, Texas
<ul style="list-style-type: none"><li>Teaching assistant for Mobile Computing and Software Engineering II.</li><li>Assisted students through office hours, class demos, and discussions.</li></ul>	
<b>Research Intern</b>	August 2022 – October 2022
Microsoft Research	Redmond, Washington
<ul style="list-style-type: none"><li>Deployed, tested, and optimized real-time network control agents within a multi-agent environment.</li><li>Conducted and presented state of the art research on network control and bandwidth estimation.</li></ul>	
<b>AI Software Engineer Intern</b>	January 2022 – June 2022
PassiveLogic	Holladay, Utah
<ul style="list-style-type: none"><li>Implemented a visualization dashboard for displaying nightly performance metrics.</li><li>Constructed a model evaluation pipeline for quantifying weather inference performance.</li></ul>	
<b>Graduate Teaching Assistant</b>	August 2021 – December 2021
University of Utah	Salt Lake City, Utah
<ul style="list-style-type: none"><li>Teaching assistant for both Machine Learning and Deep Learning.</li><li>Assisted students by conducting lectures, tutoring, and grading homework.</li></ul>	
<b>Graduate Research Assistant</b>	May 2021 – May 2022
University of Utah	Salt Lake City, Utah
<ul style="list-style-type: none"><li>Conducted state of the art research on National Radio Dynamic Zones.</li><li>Realized an NRDZ simulation suite to help emulate and model NRDZ environments.</li></ul>	
<b>Undergraduate Research Assistant</b>	August 2020 – May 2021
University of Utah	Salt Lake City, Utah
<ul style="list-style-type: none"><li>Researched new techniques to develop a more flexible and secure 5G Network.</li><li>Funding provided by Undergraduate Research Opportunities Program (UROP).</li></ul>	
<b>Software Engineer Intern</b>	August 2020 – May 2021
Northrop Grumman	Clearfield, Utah
<ul style="list-style-type: none"><li>Implemented new user features for the APIMS web application with React JS.</li><li>Dockerized development environments, decreasing deployment time by 75%.</li></ul>	
<b>Research Intern (REU)</b>	May 2020 – August 2020
POWDER	Salt Lake City, Utah

- Designed and realized a new programmable RAN management architecture.
- Reduced vulnerable LTE network space by 50% through network function virtualization.
- Presented state of the art research on 5G Radio Access Network Security.

#### **Undergraduate Research Assistant**

September 2019 – December 2019

University of Utah

Salt Lake City, Utah

- Explored the application and efficiency of random projection on high dimensional database similarity queries.
- Analyzed the theoretical efficiency of the random projection reduction algorithm on high dimensional data.

#### **Publications**

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- Aashish Gottipati, Alex Stewart, Jiawen Song, and Qianlang Chen. 2021. FedRAN: Federated Mobile Edge Computing with Differential Privacy. In Proceedings of the 4th FlexNets Workshop on Flexible Networks Artificial Intelligence Supported Network Flexibility and Agility (FlexNets '21). Association for Computing Machinery, New York, NY, USA, 14–19. DOI:<https://doi.org/10.1145/3472735.3473392>.
- A. Gottipati and J. Van der Merwe, "BoTM: Basestation-on-the-move, a Radio Access Network Management Primitive," *IEEE INFOCOM 2021 - IEEE Conference on Computer Communications Workshops (INFOCOM WKSHPS)*, 2021, pp. 1-6, doi: 10.1109/INFOCOMWKSHPS51825.2021.9484447.

#### **Talks**

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- "Demo: Managing Mobility within Radio Dynamic Zones". IEEE RFID Digital Spectrum Twinning Workshop, Las Vegas, Nevada 2022

#### **Honors & Affiliations**

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- University of Texas at Austin Wireless Networking and Communications Research Group
- University of Utah FLUX Research Group
- University of Utah Undergraduate Magna Cum Laude
- University of Utah Undergraduate Research Scholar Designation
- University of Utah's School of Computing Jim & Stacy Pugh Scholarship
- University of Utah's College of Engineering Bimla Devi & Sant Kasera Scholarship
- University of Utah's Flagship Scholarship
- Utah's New Century Scholarship
- University of Utah Dean's List
- Association of Computer Machinery Member

\*More information provided on my personal website listed at the top.