

# PRASHANTHI RAMACHANDRAN

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## EDUCATION

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<b>Brown University, Providence, RI</b> <i>Master of Science, Computer Science</i>	Sep 2021 – May 2023 CGPA 4.0/4.0
<b>Ashoka University, Delhi, India</b> <i>Bachelor of Science, Computer Science</i>	Aug 2017 – May 2021 CGPA 3.85/4.0

## WORK EXPERIENCE

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<b>Software Engineering Intern, The RealReal</b> <i>Tech: React, Jamstack, Prismic, GraphQL, Elixir, Salesforce</i>	Jun 2022 – Aug 2022 San Francisco, CA
<ul style="list-style-type: none"><li>Transformed the consignment landing page from the Phoenix framework to Jamstack, increasing the page load speed by 30%</li><li>Upgraded the GraphQL API to collect tracking data on promotional web pages, ensuring accurate data flows into Salesforce</li><li>Led the version upgrade of Prismic CMS for The RealReal's website, serving over 24M+ members</li><li>Participated and won the company-wide hackathon for optimizing consignments in collaboration with the data science team</li></ul>	
<b>Research Intern, Koc University</b> <i>Tech: Python, AWS</i>	Jul 2020 – Aug 2020 Istanbul, Turkey
<ul style="list-style-type: none"><li>Engineered BlockSim-Net, a high-performance blockchain simulator with 95% accuracy in modeling real-world systems</li><li>Conducted research in blockchain vulnerabilities and implemented major attack and defense protocols</li></ul>	
<b>Software Development Intern, Trivedi Centre for Political Data</b> <i>Tech: Java, Javascript, HTML, CSS</i>	Dec. 2019 – Jan 2020 Delhi, India
<ul style="list-style-type: none"><li>Increased the accuracy of Surf, a resolution software for Indian names, by 25% through new mapping rules and bug fixes</li><li>Accelerated Surf's query time by ~50% via the implementation of a query-by-ID functionality</li></ul>	

## TECHNICAL SKILLS

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<b>Languages:</b> Python, Java, C, C++, SQL, Typescript, JavaScript	<b>Web dev:</b> React, Node, Cache, MongoDB, JUnit, HTML, CSS
<b>ML/AI:</b> Tensorflow, PyTorch, Pandas, OpenCV, NLTK	<b>Tools:</b> GCP, AWS, Linux, GitHub, Unity, Maven, Docker

## PROJECTS

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<b>InterTwine</b>   <i>Tech: React, CSS, Java, JUnit, React Testing Library, MongoDB, Auth0, Guava cache</i>	Jan 2023 – May 2023
<ul style="list-style-type: none"><li>Extended the browser-based open-source tool, <a href="#">Twine</a>, to enable real-time collaboration through document sharing/editing</li><li>Created a Java-based API to handle synchronicity via updates to a MongoDB database for user data with Auth0 authentication</li><li>Conducted rigorous error handling and testing throughout the development through unit, integration, and fuzz testing</li></ul>	
<b>Boston Dynamics Spot</b>   <i>Tech: Python Flask, C#, Oculus Quest Pro, Unity, Spot-SDK</i>	Jan 2023 – May 2023
<ul style="list-style-type: none"><li>Developed a Flask server to enable a low-latency seamless interaction between VR and quadrupedal robot</li><li>Engineered a precise world-to-pixel coordinate conversion algorithm, enabling accurate manipulation of Spot's actions in 3D</li><li>Achieved a 98% success rate in door manipulation tasks using Spot's image feedback and VR app's OVR controller</li></ul>	
<b>TrainDy</b>   <i>Tech: Python (Flask, Pandas, SciPy, TensorFlow)</i>	Jan 2022 – May 2022
<ul style="list-style-type: none"><li>Developed a recommendation engine for H&amp;M consumers using k-means clustering and a combination of ML algorithms</li><li>Implemented a conditional VAE to generate personalized recommendations based on user purchase patterns and location</li></ul>	
<b>Super Resolution GAN</b>   <i>Tech: Python, TensorFlow, Keras, Matplotlib</i>	Sep 2021 – Dec 2021
<ul style="list-style-type: none"><li>Built a GAN-based model for end-to-end image super-resolution with 4x improved perceptual quality</li><li>Adapted a combination of VGG-based loss and adversarial loss to improve generalizability across domains</li></ul>	
<b>HyperFunds</b>   <i>Tech: Hyperledger Fabric, Python (Flask), Node.js, HTML, CSS, Shell</i>	Jan 2020 – May 2020
<ul style="list-style-type: none"><li>Developed a full-stack application on Hyperledger Fabric to ensure that faculty spend university funds responsibly</li></ul>	

## TEACHING AND LEADERSHIP

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Head Teaching Assistant, Introduction to Computer Security, Brown University	2021 - 2023
President, Women in Computing, Won Best Academic Society and Most Enterprising Society, Ashoka University	2020 - 2021
Teaching Assistant, Computer Security, Computer Organization, TA Excellence Award, Ashoka University	2020 - 2021