

# Prashanthi Ramachandran

prashanthi-r.github.io








## EDUCATION

<b>Postgraduate Diploma in Advanced Studies and Research</b>	3.85/4.00
<i>Ashoka University   Computer Science</i>	<i>Aug. 2020 – May 2021</i>
<b>Bachelor of Science (Honours)</b>	3.70/4.00
<i>Ashoka University   Computer Science   Cum Laude Honours   Dean's list (3 semesters)</i>	<i>Aug. 2017 – May 2020</i>

## RESEARCH

<b>S++: A Secure Computation Framework</b>	December 2019 – November 2020
<i>Ashoka University</i>	<i>Sonipat, India</i>
<ul style="list-style-type: none"><li>Developed a secure three-party framework for privacy preserving ML training for exponentiation-based activation functions under the guidance of <a href="#">Prof. Debayan Gupta</a>.</li><li>Accepted for poster presentation at The Second AAI Workshop on Privacy-Preserving Artificial Intelligence (PPAI 2021) workshop.</li></ul>	
<b>Blocksim-Net: A Network-Based Blockchain Simulator</b>	May 2020 – Present
<i>Koç University</i>	<i>Istanbul, Turkey</i>
<ul style="list-style-type: none"><li>Developed a network-based blockchain simulator for Bitcoin and Ethereum networks that can be used for beta-testing, optimisations, and attacks mitigation at Koç University's Summer Research Programme.</li><li>Accepted to and <a href="#">presented</a> at <a href="#">BAŞARIM 2020</a>. Extended work in progress with the Cryptography, Security, and Privacy Research Group at Koç University, under <a href="#">Prof. Alptekin Küpçü</a> for submission to The Turkish Journal of Electrical Engineering &amp; Computer Sciences.</li></ul>	

## EXPERIENCE

<b>Capstone Project</b>    <i>Ashoka University</i>	Sep. 2020 – December 2020
<ul style="list-style-type: none"><li>Implemented state-of-the-art privacy preserving linear regression frameworks such as SecureML and ABY3 under the guidance of <a href="#">Prof. Mahavir Jhavar</a>. <a href="#">Link to presentation</a>.</li></ul>	
<b>Intern</b>   <a href="#">AshokaX</a> , <i>Ashoka University</i>	June 2020 – Aug 2020
<ul style="list-style-type: none"><li>Launched the pilot version of AshokaX, Ashoka University's EduTech initiative and onboarded 11 classes of online learners as a part of the programme team. Worked on the learning management system and aided the instructors and online learners with technical troubles.</li></ul>	
<b>Hyperfunds - A Hyperledger application</b>    <i>Ashoka University</i>	Feb 2020 – May 2020
<ul style="list-style-type: none"><li>Built a distributed application on Hyperledger Fabric that enables faculty at Ashoka University reliably spend their research funds with approval from the right administrators using Python and Javascript.</li></ul>	
<b>Neural Machine Translation</b>    <i>Ashoka University</i>	Feb 2020 – May 2020
<ul style="list-style-type: none"><li>Built an LSTM Encoder-Decoder based model for machine translation from English to Hindi with Attention mechanism in Python.</li></ul>	
<b>Software Development Intern</b>    <a href="#">Trivedi Center for Political Data</a>	Dec 2019 – Jan 2020
<ul style="list-style-type: none"><li>Added query by ID functionality and fixed bugs for the software Surf, used for incumbency mapping for Indian politicians in Java.</li></ul>	
<b>Summer Intern</b>   <i>Technology Business Incubator, SASTRA University</i>	July 2019 – Aug 2020
<ul style="list-style-type: none"><li>Worked on interior designing using VR in Unity and C#.</li></ul>	
<b>Yao's Garbled Circuits</b> 	May 2018 – August 2018
<ul style="list-style-type: none"><li>Implemented RSA based oblivious transfer and Yao's garbled circuits in C.</li></ul>	

## POSITIONS HELD

<b>Teaching Assistant</b>   <i>Computer Organisation and Systems, <a href="#">Prof. Manu Awasthi</a>, Ashoka University</i>	2020
<b>President</b>   <i>Women in Computing Society, Ashoka University</i>	2020 – Present
<b>Team Representative and Vocalist</b>   <i>Alankar, Vistaar – The Music Society of Ashoka</i>	2018 – 2019
<b>Tutor</b>   <i>Probability and Statistics   Computer Science Helpdesk, Ashoka University</i>	2019
<b>Academic Counselor</b>   <i>Young Scholars Programme, Ashoka University</i>	2019
<b>Student Ambassador</b>   <i>Ashoka University</i>	2018