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|------------------|---|----------------------|
|                  | <i>Rogue Cell tower(IMSI Catcher) detector</i>  |                      |
|                  | <ul style="list-style-type: none"> <li>• Wrote a design document with three lab partners detailing the project and future work.</li> <li>• Co-Designed an algorithm to pinpoint the location of IMSI Catchers based on received signal strength (RSS) and signal spike</li> </ul>   |                      |
| PUBLICATIONS     | <ol style="list-style-type: none"> <li>1. Fan Lai, <b>Xiangfeng Zhu</b>, Harsha Madhyastha, Mosharaf Chowdhury, "Oort: Informed Participant Selection for Scalable Federated Learning", arXiv:2010.06081, <i>Submitted to NSDI' 21</i></li> <li>2. Fan Lai, Jie You, <b>Xiangfeng Zhu</b>, Harsha Madhyastha, Mosharaf Chowdhury, "Sol: Fast Distributed Computation Over Slow Networks", <i>Proceedings of the 17th USENIX Symposium on Networked Systems Design and Implementation (NSDI 2020)</i>, Santa Clara, CA, 2020 (Acceptance Rate: 18.36%)</li> <li>3. Lennart Oldenburg, <b>Xiangfeng Zhu</b>, Kamala Ramasubramanian, Peter Alvaro, "Fixed It For You: Protocol Repair Using Lineage Graphs", <i>Proceedings of the 9th biennial Conference on Innovative Data Systems Research (CIDR 19)</i>, Asilomar, CA, 2019</li> </ol> |                      |
| WORK EXPERIENCE  | <b>Databricks</b><br><i>Software Engineer Intern</i> , Serverless Team  | May 2020 - Aug. 2020 |
|                  | <ul style="list-style-type: none"> <li>• Developed an efficient recycling mechanism for Spark clusters</li> <li>• Designed and implemented a framework for zero downtime Spark cluster upgrade based on rolling updates and cluster pools</li> </ul>  |                      |
|                  | <b>Dropbox</b><br><i>Software Engineer Intern</i> , Filesystem Team   | May 2019 - Aug. 2019 |
|                  | <ul style="list-style-type: none"> <li>• Worked on the next-generation distributed filesystem for Dropbox</li> <li>• Designed and implemented an asynchronous system to unmount namespaces that a user loses access to</li> <li>• Redesigned our Mapreduce framework to be more efficient and fault-tolerant using RocksDB and gRPC</li> </ul>  |                      |
| OTHER EXPERIENCE | <ul style="list-style-type: none"> <li>• <b>CMPE107: Probability and Statistics</b>, UC Santa Cruz, Grader Spring 2018</li> <li>• <b>CMPS12B: Introduction to Data Structures</b>, UC Santa Cruz, Learning Assistant Spring 2018, Winter 2018</li> <li>• <b>CMPS101: Algorithms and Abstract Data Types</b>, UC Santa Cruz, Learning Assistant Fall 2017, Winter 2018</li> </ul>  |                      |
| AWARDS           | <ul style="list-style-type: none"> <li>• <b>OSDI Conference Student Grant</b>, 2020</li> <li>• <b>Dean's Honor List</b>: Fall 2016, Winter 2017, Spring 2017, Winter 2018, Spring 2018</li> </ul>   |                      |
| SKILLS           | <ul style="list-style-type: none"> <li>• <b>Programming</b>: Java, C, C++, Python, Bash, SQL, HTML, CSS, L<sup>A</sup>T<sub>E</sub>X</li> <li>• <b>Platform</b>: Mac OS, Windows, Linux</li> <li>• <b>Tools</b>: Perf, GDB, Valgrind, Make, Git, Vim, Docker</li> </ul>   |                      |
| MISCELLANEOUS    | <ul style="list-style-type: none"> <li>• <b>Personal Blog</b>: <a href="https://xzhu0027.gitbook.io/blog/">xzhu0027.gitbook.io/blog/</a></li> </ul>   |                      |