

<b>Education</b>	<b>Johns Hopkins University</b> <i>Candidate for BS/MS in Computer Science</i> <b>Current GPA:</b> 3.99 <b>Relevant Courses:</b> Distributed Systems, Cloud Computing, Operating Systems, Compilers and Interpreters, Programming Languages, Machine Learning, Statistics, Natural Language Processing, Approximation Algorithms, Randomized Algorithms, Computer Graphics <b>Clubs:</b> HopHacks (Website Lead), ICPC Team, Chinese Students Association (Culinary Chair), Tutorial Project (Tutor), Club Soccer, Dragonboat <b>Research:</b> Distributed Systems and Networks Lab	<i>Baltimore, MD</i> <i>Expected Grad. May 2021</i>
<b>Experience</b>	<b>Intern, LTN Global</b> <ul style="list-style-type: none"><li>- Worked on Mobile Ingest project, with goal of streaming broadcast quality video from phones to LTN's delivery network</li><li>- Designed protocol to adapt encoder bitrate to varying conditions of cellular networks</li><li>- Integrated protocol into both Android and iOS apps</li></ul> <b>Engineering Intern, Bloomberg LP</b> <ul style="list-style-type: none"><li>- Created monitoring system for distributed applications that uses Kafka and Flask</li><li>- Displayed live runtime statistics and connectivity status on internal website</li></ul> <b>Software Development Intern, JHU Applied Physics Laboratory</b> <ul style="list-style-type: none"><li>- Developed a web application to search and add documents to database using Vue.js and Java</li></ul> <b>Software Development Intern, Software Consulting Services</b> <ul style="list-style-type: none"><li>- Helped create the Scoop 7.0 publishing system for newspapers using Qt, rewriting the previous version from scratch to use a client service model and a more modern UI</li></ul> <b>Programming Competitions</b> <ul style="list-style-type: none"><li>- Finished 1st at JHU ICPC local qualifier, 2017, 2018, 2019</li><li>- Top 50 at Bloomberg Codecon Finals, 2018, 2019</li><li>- Attained Platinum division of USA Computing Olympiad in March 2017</li></ul>	<i>May 2020 – August 2020</i> <i>June 2019 – August 2019</i> <i>June 2018 – August 2018</i> <i>May 2017 – August 2017</i>
<b>Projects</b>	<b>Optimization and Intrusion Detection for Resilient Power Grids</b> <ul style="list-style-type: none"><li>- Project for Advanced Distributed System course in Spring 2020 Semester</li><li>- Investigated how to improve update latency of Spire, an intrusion tolerant SCADA system</li><li>- Created a Machine Learning intrusion detection system for Spire, which collects, stores and trains on network data, and then predicts for intrusions in real time</li></ul> <b>Algotree</b> <ul style="list-style-type: none"><li>- Startup designed to help students learn and practice algorithmic problem-solving</li><li>- Wrote Express backend to provide authentication, record submissions, and run test cases</li><li>- Also wrote problems teaching basic Dynamic Programming</li></ul> <b>Gradient-Boosted Random Projection Forests (PennApps Fall 2018)</b> <ul style="list-style-type: none"><li>- Novel machine learning algorithm combining two recent developments in Machine Learning</li><li>- Achieved improvement over base Gradient Boosted Tree implementation</li></ul> <b>Spotme (Hophacks Fall 2017)</b> <ul style="list-style-type: none"><li>- Peer to Peer ATM service based on Firebase and Google Maps API that allows users to request or provide cash to others nearby; won 2nd place overall</li></ul>	<i>February 2020 – May 2020</i> <i>January 2020</i> <i>September 2018</i> <i>September 2017</i>
<b>Technical Skills</b>	<b>Programming Languages:</b> Python, C, C++, Java, JavaScript, Haskell, MATLAB <b>Web Technologies:</b> Flask, React, Express, MongoDB <b>Other Tools/Libraries:</b> Git, SVN, Unix, Bash, PyTorch, NumPy	