

# ChunBin (Ben) Lin

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## Education

<b>Carnegie Mellon University</b> , Pittsburg, PA	<b>GPA: 3.87/4</b>	<b>August 2019 – May 2021</b>
<ul style="list-style-type: none"><li>• <b>Master of Science in Information Networking.</b></li><li>• Courses: Search Engines, Intro to Computer System (TA), Cloud Computing, Distributed Systems, Mobile &amp; IOT Computing, Principle of Software Construction, Web Application development, API Design &amp; Implementation, and Database System.</li></ul>		
<b>University of Missouri</b> , Columbia, MO	<b>GPA: 3.70/4</b>	<b>August 2015 – May 2019</b>
<ul style="list-style-type: none"><li>• <b>Bachelor of Science in Computer Engineering</b>, Minors: Computer Science, InfoTech &amp; Mathematics.</li></ul>		

## Professional Experiences

<b>Software Engineer Intern</b>	<b>Hulu</b>	<b>June 2020 – August 2020</b>
<ul style="list-style-type: none"><li>• Built new features on top of the current custom support platform by partnering across multiple Hulu teams and services to centralize agent's workflow and increase custom support productivity.</li><li>• Developed features with React JS, GraphQL, Apollo client, Ant Design, python flask and graphene.</li><li>• Deployed the application on AWS with Spinnaker and Jenkins to simplify the CI/CD process.</li><li>• Significantly reduce the average handling time for agents to check refund eligibility of existing customers.</li></ul>		
<b>Software Engineering Intern</b>	<b>Garmin International</b>	<b>May 2019 – August 2019</b>
<ul style="list-style-type: none"><li>• Sped up the development process by developing a library for engineers to interact with Vector Network Analyzer in C++.</li><li>• Increased product quality and sped up the test process by designing an automated test in C for factory antenna tests.</li><li>• Accelerated antenna data processing for engineers by developing a visualizer using NumPy, SciPy, seaborn and matplotlib.</li></ul>		
<b>Part-time Software Developer</b>	<b>Shelter Insurance</b>	<b>September 2018 – May 2019</b>
<ul style="list-style-type: none"><li>• Developed a more efficient and comprehensive test converge for a billing software by designing and implementing a java-based web UI automation test framework from open source tools such as Selenium, Junit, cucumber and extent report.</li><li>• Reduced time spend on tests up to 4 hours by developing tools in Java to modify and verify excel data and billing invoices.</li></ul>		

## Relevant Project Experiences

<b>Twitter Analytics System on the AWS</b>	<b>Cloud Computing Project (1<sup>st</sup> place)</b>
<ul style="list-style-type: none"><li>• Ranked 1<sup>st</sup> out of 42 teams in the team project by utilizing many optimization tweaks and well-designed database schemas.</li><li>• Performed Extract, transform (ETL) with Spark on 1 TB of twitter data and loaded into MySQL, HBase and Amazon Aurora.</li><li>• Implemented web server with Vert.x for various queries in Amazon EC2 and Amazon Fargate with Elastic Load Balancing.</li><li>• Participated on live tests that lasted over six hours with over 60,000 request per second and a limited budget.</li></ul>	
<b>Purple Squirrel</b>	<b>Mobile &amp; IoT Final Project</b>
<ul style="list-style-type: none"><li>• Cross-platform mobile recruitment marketplace implemented with React native and typescript.</li><li>• Utilized LinkedIn API for OAuth 2 login, Google firebase for real-time chat system, authentication and push notifications.</li><li>• Deployed MySQL database to Google Cloud SQL and back-end code to Google Cloud Functions for a serverless backend.</li></ul>	
<b>"Puzzle"</b>	<b>Tiger-Hack (Microsoft 1<sup>st</sup> place)</b>
<ul style="list-style-type: none"><li>• Earned in Microsoft 1<sup>st</sup> place out of 65 teams by designing an IOS app for journalism industry with a cross-disciplinary team.</li><li>• Investigated on Graph API to allow user authentication as well as Outlook data extraction to enhance user interaction.</li><li>• Configured NY Times API for news feeds and created a multi-user news comment section with Firebase.</li></ul>	

## Skills

- **Programming Languages:** C, C++, Java, Python, SQL, JavaScript, Scala, Swift, Assembly and VHDL.
- **Familiar Tools and frameworks:** Git, UNIX, AWS, GCP, Azure, Firebase, React, React-native, GraphQL, Flask, Docker, MySQL, HBase, MongoDB, MapReduce, Spark, Kafka, Terraform, Maven, Node.js and Selenium.