

# JUSTIN APPLEFIELD

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EDUCATION	<b>UNIVERSITY OF MICHIGAN</b>	<b>Ann Arbor, MI</b>
	<b>College of Engineering:</b> Bachelor of Science in Computer Science Engineering, December 2022 <b>Stephen M. Ross School of Business:</b> Bachelor of Business Administration, December 2022 <ul style="list-style-type: none"><li>• Minors in Chinese Language and Culture, Mathematics</li><li>• Relevant Coursework: Web Systems, Machine Learning, Computer Security, Big Data in Finance</li><li>• Exchange student at Hong Kong University of Science and Technology, Summer 2019</li><li>• GPA: 3.99/4.00</li></ul>	
EXPERIENCE	<b>DUOLINGO</b>	<b>Pittsburgh, PA</b>
2022	<b>Software Engineering Intern</b> <ul style="list-style-type: none"><li>• Summer Internship (May to August 2022)</li></ul>	
2020 - Present	<b>UNIVERSITY OF MICHIGAN</b>	<b>Ann Arbor, MI</b>
	<b>Instructional Aide/Teaching Assistant</b> <ul style="list-style-type: none"><li>• Hosted office hours and lab sessions for EECS 485: Web Systems to provide secondary instruction on web dev and distributed computing topics, including single-page web app design and MapReduce</li><li>• Developed lab curricula to instruct students in development and debugging of programs in Python and JavaScript, including asynchronous and multithreaded programming</li><li>• Mentored students on data analytics techniques in Excel, SAS, and Python for FIN 342: Big Data in Finance to enhance students' coding competency for quantitative finance research reports</li></ul>	
2020	<b>RANDOM FOREST VC</b>	<b>Tel Aviv, Israel</b>
	<b>Business Intelligence Analyst</b> <ul style="list-style-type: none"><li>• Evaluated incoming startups to determine disruptive potential, competitiveness, and data value to help machine learning-focused, early-stage, boutique venture capital fund optimize portfolio</li><li>• Synthesized pitch content and external research to deliver recommendations for/against further consideration of 7 startups covering topics including kernel-mode sandboxing and big data to expedite consideration of the most promising startups in the pipeline</li></ul>	
PROJECTS	<b>AGIOCLI</b>	
	<a href="https://pypi.org/project/agiocli/">https://pypi.org/project/agiocli/</a> <ul style="list-style-type: none"><li>• A command line interface for managing the university's automatic grading platform</li><li>• Contributed bug fixes and features including file downloading and user input pattern matching</li><li>• Language: Python; Libraries: Requests, Click</li></ul>	
	<b>DATA ANALYSIS: PANDEMIC INDUCED RESTRUCTURING</b>	
	<a href="https://github.com/japplefield/fin342-corp-structure">https://github.com/japplefield/fin342-corp-structure</a> <ul style="list-style-type: none"><li>• Authored data analysis report on corporate debt/equity restructuring because of COVID-19</li><li>• Language: Python; Libraries: Numpy, Matplotlib</li></ul>	
	<b>COURSEWORK</b>	
	<b>Private Repo</b>	
	<ul style="list-style-type: none"><li>• Constructed a convolutional neural network for identifying dog breeds by photo (Pytorch)</li><li>• Built a search engine index server and UI for a subset of Wikipedia (MapReduce, Python, React.js)</li></ul>	
SKILLS	<ul style="list-style-type: none"><li>• Programming Languages: Python, C++, Javascript, HTML, CSS, SQL</li><li>• Frameworks and Libraries: React.js, Flask, Pytorch</li><li>• Working proficiency in Mandarin Chinese</li></ul>	
ADDITIONAL	<ul style="list-style-type: none"><li>• VP of Operations for TAMID Group, a consulting and investing student organization</li><li>• Music Director and Arranger for Jewish A Cappella Group</li><li>• Taught English at a primary school in Guiyang, China</li><li>• Filmed, produced, and published vlogs in 12 countries</li></ul>	