






EDUCATION	<b>Cornell University</b> , Ithaca, NY B.A. in Computer Science, History Minor GPA: 4.17 / 4.00   Dean's List for Excellence in Scholarship (all semesters) Aug 2019 - May 2023 (expected)
COURSEWORK	CS 6820: Analysis of Algorithms* CS 6670: Computer Vision* CS 4414: Systems Programming* * = in progress CS 4820: Algorithms <sup>†</sup> CS 4780: Machine Learning <sup>†</sup> CS 3110: Functional Programming <sup>†</sup> = teaching assistant CS 4450: Computer Networks CS 3410: System Organization CS 2110: Data Structures & OOP <sup>†</sup> CS 2800: Discrete Structures MATH 2210: Linear Algebra ENGRD 2700: Probability
SKILLS	<b>Languages</b> Python, OCaml, Typescript, JavaScript, C/C++, Java, HTML/CSS, Bash <b>Technologies</b> React, Angular, PyTorch, Redux, Flask, Git, Jupyter
EXPERIENCE	<b>Google, Inc.</b> , Sunnyvale, CA (Remote) May 2021 - Aug 2021 <i>STEP Intern, Google Cloud AI</i> <ul style="list-style-type: none"> <li>Designed and developed hyperparameter configuration suite, enabling on-the-fly redeployment of model training for the recently launched Visual Inspection AI product</li> <li>Implemented entity tag support for backend operations using C++ and protocol buffers, reducing vulnerability to race conditions and improving product scalability</li> <li>Full-stack development with Angular, HTML/CSS, GraphQL, and a Google Spanner database</li> </ul> <b>YITU Technology</b> , Singapore May 2020 - Aug 2020 <i>Research and Development Intern</i> <ul style="list-style-type: none"> <li>Researched and implemented proprietary instance detection and orientation classification models in PyTorch to detect and classify identity cards in input images, decreasing mean absolute error by more than 20% relative to previous solution</li> <li>Classified presence of lung inflammation in MRI scans, utilizing logistic regression and random forest classifier, for use in publication in European Journal of Nuclear Medicine and Molecular Imaging</li> </ul> <b>Cornell University Unmanned Aerial Systems</b> , Ithaca, NY Oct 2019 - present <i>Software Engineer, Subteam Lead</i> <ul style="list-style-type: none"> <li>Software engineer and incoming subteam lead at top undergraduate fixed-wing aircraft team, which manufactures a custom plane yearly to accomplish autonomous navigation and target identification</li> <li>Implemented end-to-end framework for training and evaluating machine learning models in PyTorch on images captured from autonomous aircraft, used by entire subteam</li> <li>Architected and deployed a new web service using React, Flask, and MySQL, for use on all flights, to run segmentation and classification algorithms on collected images</li> </ul>
PREPRINTS & PUBLICATIONS	<b>Edge Proposal Sets for Link Prediction</b>   (under submission) Abhay Singh, Qian Huang, Linda Huang, Omkar Bhalerao, Horace He, Ser-Nam Lim, Austin Benson <b>Large Scale Learning on Non-Homophilous Graphs</b> (under submission) Derek Lim, Felix Hohne, Xiuyu Li, Linda Huang, Vaishnavi Gupta, Omkar Bhalerao, Ser-Nam Lim
PROJECTS	<b>Skedaddle Camel</b>  <ul style="list-style-type: none"> <li>Created interactive maze game in OCaml utilizing model-view-controller and state design patterns, in team of four</li> </ul> <b>Animated Pomodoro Timer</b>  <ul style="list-style-type: none"> <li>Implemented and deployed React/Redux app with Pomodoro timer functionality as a Chrome extension, with static and dynamic assets designed from scratch using HTML/CSS &amp; Figma</li> </ul> <b>Interactive Tax Calculator</b>  <ul style="list-style-type: none"> <li>Implemented Chrome extension that injects React scripts into relevant web pages to display post-tax product prices, utilizing SQLite database to store location-based tax information</li> </ul>