

Tony Zhu

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Education	Texas A&M University , College Station, TX BS in Electronic Systems Engineering Tech. Minor in Computer Science Class of 2021	Phillips Exeter Academy , Exeter, NH David T. Swift Proctor Award Class of 2017
Skills	Languages: Fluent in Java Experienced in Python and SQL HTML/CSS, C++, C#, Javascript	
	Tools: Git Agile/Scrum Methodology Unity Linux Tableau Jira & Confluence .NET	
	Libraries/Packages: React Native Keras & Tensorflow OpenCV Tesseract OCR Beautiful Soup 4	
	Miscellaneous: Ideation Process Rapid Prototyping Public Speaking Video Editing Ultimate Frisbee	
Experience	Operations Research Intern, American Airlines May 2019 - Now	
	Advanced data analytics and visualization of baggage routes, employee performance, and usage of internal tools. Technologies include: SQL (Teradata), Python (pandas, pyodbc), and Tableau. Future plans include using machine learning models (SVM, random forests, etc.) to provide insights/predictions.	
	Software Engineer Intern, Schneider Electric June 2018 - August 2018	
	Microsoft HoloLens app to showcase a variety of Schneider products in AR. Development process includes extensive use of Unity, C# scripting, Visual Studio (Team Services), 3D modeling, and Agile workflow.	
	Tackled automation of company-wide product request system utilizing Computer Vision, Machine Learning, and OCR. Problems include PDF parsing, noisy image filtering, and extreme request variability. Tools include C#, .NET Framework, Python, OpenCV, Tesseract.	
	Intern, Cycorp AI June 2016 - August 2016	
Projects	Debugged and tested software products in a Scrum/Agile workflow environment.	
	Programmed high level software in C# and CycL for company projects and products.	
	Research Assistant, A&M Deep Learning Lab November 2017 - May 2018	
	Weekly topics and challenges on neural networks (Keras/Tensorflow in Python) assigned and supervised by Dr. Anxiao Jiang. Recent challenges involve a MNIST recognizer and a chatbot (NLP processing) by neural networks.	
Activities	Automated Flight Attendant (Alfred) [Flask/React Native] TamuHack, January 2019	
	Won 2nd in American Airlines' Challenge. Personal work: used Flask on a Raspberry Pi as an IoT server and a custom built React Native application to send POST requests. Ultimately created a self driving and automatically dispensing drinks trolley to drive down aisles unmanned (other members worked on hardware).	
	MoshMusic [React Native] SXSW Hackathon, March 2018	
Activities	Created multi-paged front end Android mobile application in React Native. Social network app creating connections based on Spotify data/playlists. Allows event hosts to create master playlists generated from attendee's music preferences.	
	Project Manager, Aggie Coding Club September 2018 - November 2018	
Activities	Lead 12 students to build a reddit-like forum for all classes on campus. Front-end built with ReactJS, back-end with Flask. Teach and guide many inexperienced students through the learning process and ultimately create a full stack web application.	