# **m** Education

Georgia Institute of Technology

M.S. in Computer Science

Spring 2015 - Summer 2018

▶ GPA: 3.91/4.0

Samford University

2000-2004

B.M. in Piano Performance



#### FedEx Express / Pilot - Captain

August 2016 - Present

 Act as Pilot In Command in FAR 121 air carrier operations on Boeing 757/767 aircraft with flights operating in the U.S., Europe, and Asia.

#### ExpressJet Airlines / Manager - Advanced Qualification Program

January 2014 - August 2016

 Implemented and maintained the Flight Crewmember Advanced Qualification Program. Led pilot proficiency data collection and analysis projects. Coordinated Federal Aviation Administration program approvals and AQP manual revisions.

#### ExpressJet Airlines / Lead Ground and Simulator Instructor

May 2007 - December 2013

 Coordinate training and standardization of Ground Instructors on the EMB-135/145 Aircraft. Develop courseware for classroom learning, content for computer-based-training, and lesson plans for cockpit procedures training.

#### ExpressJet Airlines / Pilot - Captain

May 2006 - August 2016

 Act as Pilot In Command in FAR 121 air carrier operations on Embraer 135/145 aircraft for Contintental Express and United Express

# **Q** Academic Research Experience

Instructional Associate Researcher - Polo Club of Data Science
DARPA Guaranteeing Al Robustness Against Deception (GARD) project

May 2021 - Present

## Honors and Awards

#### Outstanding Instructional Associate

2022

For teaching assistantship in CSE 6242 - Data and Visual Analytics at Georgia Tech

### Best Poster Award at IEEE VIS Conference

2021

For "Towards Automatic Grading of D3.js Visualizations"

## Publications

DetectorDetective: Investigating the Effects of Adversarial Examples on Object Detectors S. Vellaichamy, M. Hull, Z.J. Wang, N. Das, S. Peng, H. Park, D.H. Chau Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2022.

Towards Automatic Grading of D3.js Visualizations M. Hull, C. Guerin, J. Chen, S. Routray, D. H. Chau IEEE Transactions on Visualization and Computer Graphics (IEEE VIS), 2020.

P Best Poster Award

Argo Lite: Open-Source Interactive Graph Exploration and Visualization in Browsers S. Li, Z. Zhou, A. Upadhayay, O. Shaikh, S. Freitas, H. Park, Z. J. Wang, S. Routray, M. Hull, D. H. Chau Proceedings of the ACM International Conference on Information & Knowledge Management (CIKM), 2020.

## Invited Talks and Presentations

Flying Cargo During the COVID-19 Pandemic

▶ Palo Alto University Rotary Club, Palo Alto, CA (Invited Talk, Host: Jake Yoo)

September 23, 2022

Line Oriented Evaluation Design

▶ Advanced Qualification Program Working Group, Las Vegas, NV, USA (Invited Talk, Host: Allegiant Airlines) October 15, 2015

Tactical Reporting of Advanced Qualification Program Training Data

▶ World Airline Training Symposium Orlando, FL, USA (Invited Talk, Host: Julie Franzen)

April 20, 2015

Reason Code & Instructor Comments Data Analysis Methodology

▶ Advanced Qualification Program Working Group Dallas, TX, USA (Invited Talk, Host: Envoy Airlines)

February 25, 2015

### Professional Service

Reviewer

▶ ACM International Conference on Information & Knowledge Management, Resource Track (CIKM)

2020

# Teaching

CSE 6242: Data & Visual Analytics

- Head Teaching Assistant / Instructional Associate (1200 students)
- Teaching Assistant / Instructional Associate (900 students)
- Graduate Teaching Assistant (800 students)

Flight Standards & Training

- Simulator Instructor Embraer 145 Aircraft
- Lead Ground Instructor Embraer 145 Aircraft
- Ground Instructor Embraer 145 Aircraft

### Georgia Institute of Technology

Fall 2019 - Present Fall 2018 - Spring 2019 Spring 2018 - Summer 2018

#### **ExpressJet Airlines**

January 2016 - August 2016 January 2012 - December 2013 July 2007 - December 2012

## Certifications

- Boeing 757 / 767 Type Rating
- Boeing 737 Type Rating
- Embraer 135/145 Type Rating
- Airline Transport Pilot
- Certified Flight Instructor Single Engine, Multi Engine, Instrument

# **9** Skills

### Programming

Python, R, JavaScript, SQL, Objective-C

**Web Development**D3, jQuery, Ruby on Rails, PHP

### ✓ Design

After Effects, Photoshop, Blender, Cinema4D

## ☐ References

Dr. Polo Chau, Associate Professor School of Computational Science and Engineering Georgia Institute of Technology cc.gatech.edu/~dchau/

Dr. Mahdi Roozbahani, Lecturer School of Computational Science and Engineering Georgia Institute of Technology cse.gatech.edu/people/mahdi-roozbahani/

James Barbour, Director - Flight Standards and Training Avelo Airlines
JBarbour@aveloair.com