

Chengyu(Andy) Bao

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Education

Georgia Institute of Technology – Atlanta, GA Expected graduation Dec 2022
M.S in Computational Science & Engineering, GPA 4.0/4.0

- Coursework: Computer Vision, Algorithms, Machine Learning, Data & Visual Analytics, Computer Simulation, Regression Analysis, Numerical Linear Algebra

University of Washington – Seattle, WA Sep 2017 - Apr 2021
B.S in Mathematics, GPA 3.6/4.0

- Dean's List 2017-2021, National Honor Society and Unite UW member
- Coursework: OOP, Data Structures, SQL and NoSQL database, Linear Algebra, Statistics & Probability, Optimization, Stochastic Process

Work Experience

Panzura (Intern in QA Automation) - San Jose, CA July 2021 – Aug 2021

- Used Java Selenium to move over 17000 test templates and related test case information from a local server to Atlassian Jira Cloud.
- Reduced the maintaining cost of the local server, increased information security and improved agility and flexibility of the testing process.

School Projects

CSE 6140 Graduate Algorithms – Atlanta, GA Aug 2021 – Dec 2021

- Implemented a simulated annealing algorithm for the Travelling Salesman Problem.
- Achieved ~2% error for small datasets and ~9% error for large datasets with relatively high speed.

CSE 6740 Computational Data Analysis – Atlanta, GA Aug 2021 – Dec 2021

- Analyzed supply chain data from DataCo. Utilized models like Logistic Regression, Random Forest, and XGBoost to make predictions on late delivery and fraud probability.
- Achieved accuracy of 0.729 on late delivery probability and 0.977 on fraud probability.

CSE 6242 Data & Visual Analytics – Atlanta, GA Jan 2022 – Current

- Leverage SBF-GPT based classification model to build a toxic language detection model that detects whether a given statement implies stereotypes and provide detailed explanations for the implied harms.
- Applied the model on three large datasets from Twitter, visualize the distribution of different biases through an interactive interface built with q3.js.

CS 6476 Computer Vision – Atlanta, GA Jan 2022 – Current

- Implement a Panorama Stitching app based on Python. Utilize Harris Corner Detector to extract features and RANSAC to establish geometric correspondences.
- Design and train deep convolutional neural networks for scene recognition. Fine-tune a pre-trained ResNet architecture and achieve an accuracy of 90%.

Personal Projects

Crown Clothing Web App Feb 2021 – Apr 2021

- Implemented an e-commerce clothing website based on JavaScript, React.js, and HTML.
- Styled the front-end using Bootstrap CSS, implemented user registration & authentication using Firebase, handled payments using Stripe API.

Skills

Programming: Java, R, Python, Selenium, JavaScript, Scala, PySpark, MySQL, React.js, HTML
Platforms & Tools: AWS, Linux, Git, Numpy, PyTorch, TensorFlow, Scikit-learn