

Chengyu(Andy) Bao

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Education

Georgia Institute of Technology – Atlanta, GA Aug 2021 - 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, IOT, Software Test & Analysis.

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 Software Development) - San Jose, CA May 2022 – Dec 2022

- Conducted comprehensive Ransomware tests using Confluent Kafka and Kubernetes Jumpserver to access, store, and manage malware manipulation data as continuous, real-time streams.
- Analyze the data using Python and improve the algorithm to detect the Ransomware more accurately at an early stage with a false/no detection rate of 2.5%.

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.

Personal Projects

Quiz App Oct 2022 – Dec 2022

- Designed and developed a robust online quiz platform using Spring Boot framework. Implemented both user and admin systems for seamless user experience and efficient management of quizzes.
- Built the application adhering to the microservice architecture using Eureka and Spring Cloud.
- Used Hibernate and Spring Data Repository to manage MySQL and MongoDB databases. Stored unstructured data with Amazon S3 Buckets. Used OpenFeign for synchronous communication and RabbitMQ for asynchronous communication among internal microservices.
- Integrated the system with Spring Security to efficiently managing user authentication and authorization.

SuperDuperMart Web App Feb 2021 – Apr 2021

- Implemented an online shopping 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.

School Projects

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

- Leveraged 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, visualized the distribution of different biases through an interactive interface built with q3.js.

Skills

Programming: Java, Spring Boot, Hibernate, JSP, Selenium, Python, Scala, PySpark, React, HTML, CSS

Technical: MySQL, MongoDB, RabbitMQ, Kafka, Kubernetes, Heroku, Docker, AWS, GCP, Linux, Git