Billy Zhong https://billyz.me

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Education Yale University — Computer Science (B.S.) and Mathematics (B.A.)

2018-Present

Expected Graduation: May 2022

CPSC 223 — Data Structures CPSC 323 — Introduction to Systems CPSC 475 — Computer Vision CPSC 476 — Advanced Computer Vision MATH 230 — Vector Calculus and Linear Algebra MATH 244 — Discrete Mathematics CPSC 338 — Digital Systems CPSC 366 — Intensive Algorithms CPSC 470 — Artificial Intelligence MATH 270 — Set Theory MATH 305 — Real Analysis ${\sf CPSC~452-Deep~Learning}$ CPSC 460 — Automata Theory CPSC 468 — Computational Complexity PHIL 267 — Mathematical Logic PHIL 427 — Computability and Logic MATH 310 — Complex Analysis MATH 350 — Abstract Algebra CPSC 465 — Theory of Distributed Systems ECON 351 — Mathematical Game Theory MATH 354 — Number Theory

*currently enrolled

Work Twitter - Software Engineering Intern

2021

Designed and implemented a retry pipeline and dead letter queue for failed events using Java and Kafka Increased revenue recovery and data correctness and established indepedence from external services

Yale University (Professor Sun-Joo Shin) — Research Assistant

Prepared case studies concerning different forms of heterogenous systems of logic to study and characterize the nature of diagrammatic reasoning

DeepMap — Computer Vision Intern

2019

Designed algorithms and benchmarks for lane line feature detection in satellite road images Implemented such algorithms into accessible, user-friendly tools

Zingbox – Software Intern

2017

Programmed a test suite for UI using Python and Selenium Created database query interface for Splunk

Projects Chinese Study Tool

2019

Programmed a computer vision application to recognize Chinese characters within PDF images and annotate them within the PDF with their translations

Explored object localization neural networks in contrast to traditional computer vision techniques

Bartending Robot

2019

Designed and constructed a small, portable robot that makes beverages to-order through both physical and web interfaces

Presented in Digital Systems class as an embedded system for final project

Dynosaur

2016-2018

Researched optimization techniques to teach a bot to play the Google Dinosaur Runner Game Designed a interactive web dashboard to monitor the bot as it learns

Awards

FBLA State Leadership Conference	4th Place, Network Design	2016
USA Computing Olympiad	Gold Division	2016
VEX World Championships	Judges' Award, Arts Division	2015
HSHacks	Top 3, Hardware Hacks	2014