

David Wang

B.S. IN COMPUTER SCIENCE AND STATISTICS · UNIVERSITY OF ILLINOIS AT URBANA CHAMPAIGN · EXPECTED GRAD: MAY 2022

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Work Experience

Quora, Confluent

INCOMING SOFTWARE ENGINEERING INTERN

Mountain View, CA

June 2020 - December 2020

- Incoming SWE Intern at Quora (Canceled due to COVID-19, Summer 2020), Confluent (Fall 2020)
- Confluent (Incoming Fall 2020): Apache Kafka Client Team

Amazon - AWS Workspaces

SOFTWARE DEVELOPMENT INTERN

Seattle, Washington

May 2019 - August 2019

- Redesigned/prototyped customer billing console experience
- Designed Aurora PostgreSQL database to store customer billing information
- Created real time data streaming pipeline with AWS Lambda and Kinesis from DynamoDB to Aurora PostgreSQL
- Designed and built improved front-end using NodeJS, HTML, CSS, and Express to display customer bill
- 1st Place at Amazon Future Engineer Hackathon

George Mason University

SUMMER RESEARCH INTERN

Fairfax, Virginia

June 2017 - August 2017

- Used Distributed TensorFlow to parallelize internal processes of AdaGAN, a variation of a Generative Adversarial Network
- Studied multiple variations of GAN and applied them to MNIST, super resolution, and image generation
- Worked under Dr. Xiang Chen in the engineering department to present at poster seminar

Projects

Accessible Resource Finder

PROGRAMMER

- 1st Place at Amazon Future Engineer Hackathon 2019
- Created an Alexa skill that allows users to find preexisting Alexa skills useful to paraplegics/quadruplegics
- Presented to Amazon executives and the Tyler Shrink Foundation

OpenCV Rubik's Cube Solver

PROGRAMMER

- Created a program that scans a Rubik's cube via webcam and outputs a solution
- Used C++, OpenCV, openFrameworks

Awards

United States Computing Olympiad (USACO)

COMPETITOR

USA

12/20/16

- Competed in 4 hour competition to solve 3 algorithm problems
- Achieved Gold Rank with score of 760 on 12/20/16

Zero Robotics

COMPETITOR

Boston, MA

August 2016 - January 2018

- Programmed robot in C++ with team for objective-based robotics tournament. Went to finals tournament at MIT sponsored by NASA and MIT. Watched code run on robots aboard the International Space Station
- 2016: 3rd Place in International Alliance Round out of 150+ teams
- 2017: 5th Place in International Alliance Round out of 200+ teams

Relevant Coursework

Computer Science Courses, Algorithms and Models of Computation, Distributed Systems, Database

2018-20 Systems, Systems Programming, Programming Languages and Compilers, Computer Architecture, Data Structures, Discrete Structures, Software Design Studio, Numerical Methods

2018-20 **Mathematics/Statistics Courses**, Multivariable Calculus, Linear Algebra, Statistical Analysis, Probability

Skills

Programming Java · C++ · Python · C · SQL · NodeJS · HTML · CSS · Haskell

Technologies AWS Lambda · AWS Kinesis · AWS DynamoDB · AWS Aurora · JUnit4 · Catch2