

Chris Shikang Gao

Bachelor with experienced coding and problem solving skills especially in Java, Python and Azure, searching for Software Engineer Intern position

EXPERIENCE

Software Engineer Intern | Starbucks

Seattle, WA / JUN - AUG 2019

- Leveraged Jenkins pipeline with Python to deploy the configuration of network stack for 10,000 retail stores in North America
- Set up Azure cloud storage and analysis pipeline to record streaming telemetry
- Implemented a client location analyzing service using Python(matplotlib, sklearn, pandas), Tableau and PowerBI
- Provided a new linear regression parameter for store performance evaluation and interpolation used by the future retail store planning teams

CSE 484 Computer Security TA | University of Washington

Seattle, WA / APR - JUN 2019, SEP - Present

- Working with the professor to assist a class of 200 students by leading sections of 100 students and preparing section materials
- Built Python scripts for lab assignments setup in Linux remote machine and developed auto-grading scripts in Python for future course development

Algorithm Engineer Intern | DeepGlint Information Technologies

Beijing, China / JULY - OCT 2017

- Experimented on existing Neural Networks in Caffe to classify human attributes
- Improved the precision of the current model in detecting human face attributes by 30% by modifying on GoogLeNet
- Built up a WeChat Official Account to predict if test attendants have Acromegaly by analyzing photos of faces

PROJECTS

Book your Flight! | Java, SQL, Azure, JDBC, ODBC

Seattle, WA / SEP - DEC 2018

- Designed a flight booking management application based on Java and SQL
- Deployed flights information SQL Database in Azure for application to access
- Added in locks to prevent racing conditions when multiple users were booking the same flight concurrently

CY's Chess Robot | Java

Seattle, WA / FEB - MAR 2018

- Created a chess robot based on Java by leveraging Minimax Algorithm to predict the next best move
- Utilized a combination of Alpha-Beta Search and Parallel programming

Handwritten Numbers Classification | C++, Caffe, OpenCV

Seattle, WA / FEB - JULY 2017

- Experimented on multiple neural networks in Caffe and acquired the best fitting model for MNIST handwritten digit classification by modifying LeNet model
- Generated a new dataset of size 1k with multiple numbers in one picture based on MNIST handwritten digits dataset using C++(OpenCV)

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github.com/chrisgsk5

EDUCATION

University of Washington

Seattle, WA / DEC 2020

B.S. Computer Science

Minor: Applied and Computational Math Sciences

GPA: 3.7

Dean's list: 7 Quarters

SKILLS

Languages

Proficient: Java, Python, SQL

Basic knowledge: C++, C, C#, Racket, SML, Ruby, Datalog, SQL++

Tools

Azure, AWS Redshift, Snowflake, MongoDB, Hadoop, Spark, AsterixDB, PostgreSQL

Tableau, PowerBI

Postman, Jenkins, Ansible

Linux, Caffe, OpenCV

RELEVANT COURSES

Utilization and Implementation of common data management systems

Foundations of modern computer security

Abstractions and implementation techniques in the construction of distributed systems

Computer network architectures, protocol layers, network programming

Abstract data types and structures with parallel algorithms