

U.S. Citizen
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Jun Chen

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Education

Georgia Institute of Technology | Atlanta, GA

August 2021 – December 2022

M.S. in Computer Science, GPA 3.85

Georgia Institute of Technology | Atlanta, GA

August 2017 – May 2021

Bachelor of Science in Computer Science, GPA 3.82

- Awards: President Undergraduate Research Award Spring 2021, Best Use of Authorize.Net (HackGSU 2019)

Experience

Cloudera

May 2021 – August 2021

Software Engineer Intern

Santa Clara, CA

- Created Parsers for gigabyte Spark Driver Logs and Event Logs for inputs into the Spark Simulator
- Built an Apache Spark Simulator for dynamically autoscaling executors based on parsed logs to minimize the cloud provisioning start up time and over allocation of executors
- Saved compute time and cost for heuristics tests, 50-minute Spark application simulated in 1 minute

Georgia Institute of Technology (High Performance Architecture Lab)

January 2021– May 2021

Research Assistant

Atlanta, GA

- Implemented a distributed OpenDroneMap with gRPC and ran drone image datasets tests for communication and computation times on virtual machines with Wi-Fi and mmWave speeds
- Scaled compute time from 3261 seconds to 1026 seconds with additional virtual machines and communication time from 735 seconds to 26 seconds with conversion from Wi-Fi to mmWave speeds.
- Workshop: http://prism.sejong.ac.kr/dossa-4/dossa_paper/DynaaDCP_Final.pdf

Federal Reserve Bank of Atlanta

May 2019 – August 2019

Software Engineer Intern

Atlanta, GA

- Implemented three chatbots with Microsoft Bot Framework and Webchat with React, ASP .NET, Microsoft QnA Maker, Microsoft LUIS to assist with various bank accessibility services
- Developed bank examination search with Azure Search, converted searching from paper documents to digital search
- Developed an audio conversion and speech-to-text transcription with sentiment analysis, key phrases, entities extraction speeding up meeting transcription from hours delay to real time

Georgia Institute of Technology (Digital Design Laboratory)

May 2019– August 2020

Undergraduate Teaching Assistant (Lead Teaching Assistant: 1/2020 – 8/2020)

Atlanta, GA

- Assist and check off 25+ students weekly on their laboratory assignments
- Help students debug their combinational logic circuits, sequential circuit elements, and programmable logic arrays in Altera Quartus, Protoboards, Logic Analyzers, and Oscilloscopes

Projects

Cuda Runtime System for x86 | CUDA, C++, LLVM

- Implemented CUDA Runtime API for x86 architecture which includes device, stream, event, and memory management modules and ran benchmarks tests
- Used LLVM to manipulate generated NVVM IR from Clang
- arXiv link: <https://arxiv.org/abs/2206.07896>

Course Critique | React.js, Python, Elasticsearch, Logstash, AWS (critique.gatech.edu)

- Created course and professor search for students interested in the grade point average or letter grade percentages of offered courses with AWS Elasticsearch, AWS Lambda, AWS API Gateway, AWS RDS, and React.js used by 20,000+ students

2nd Generation Sports | JavaScript, Flask, AWS DynamoDB, Python NLTK

- Created Flask application for research data collection of possible 2nd generation athletes for collegiate sports teams
- Developed a web scraper which extracts possible 2nd generation athlete from college rosters with Python NLTK

Skills

Languages: Java, Python, C, C++, JavaScript, Node.js

Technologies: AWS, MongoDB, GitHub, Vue.js, React.js, MySQL, Linux, HTML CSS, Elasticsearch, gRPC