U.S. Citizen

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 on Kubernetes 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 used by 20,000+ students to find the grade point average or letter grade percentages of offered courses with AWS Elasticsearch, AWS Lambda, AWS API Gateway, AWS RDS, and React.js

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