

# 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 Spark Driver Logs and Event Logs
- Built an Apache Spark Simulator for dynamically autoscaling executors based on parsed logs to minimized cloud provisioning start up time and over allocation of executors

### GT HPArch 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

### 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, and Azure Search to improve bank examination, FAQs about the bank, and people search
- Developed an audio conversion and speech-to-text transcription with sentiment analysis, key phrases, entities extraction

### Digital Design Laboratory

May 2019 – August 2020

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

Atlanta, GA

- Assist and check off 20+ 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 (GT HPArch Lab Research)

- 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
- arxiv link: <https://arxiv.org/abs/2206.07896>

### Course Critique | React.js, Python, Elasticsearch, Logstash, AWS

- 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, and AWS API Gateway, AWS RDS, React.js

### Zkolio.com | Typescript, Vue.js

- Project Directory for the zksync protocol

### Distributed OpenDroneMap | Python, gRPC, OpenDroneMap

- Implemented OpenDroneMap with gRPC for distributed 3D reconstruction
- Workshop: "DynaaDCP: Dynamic Navigation of Autonomous Agents for Distributed Capture Processing"
  - [http://prism.sejong.ac.kr/dossa-4/dossa\\_paper/DynaaDCP\\_Final.pdf](http://prism.sejong.ac.kr/dossa-4/dossa_paper/DynaaDCP_Final.pdf)

### 2<sup>nd</sup> Generation Sports | JavaScript, Flask, AWS DynamoDB, Python NLTK

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

## Skills

**Languages:** Java, Python, C, C++, JavaScript, Scala (beginner), Node.js, Rust (beginner), SQL

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