

# Nathan Wang

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## EDUCATION

### GEORGIA TECH

#### M.S. IN COMPUTER ENGINEERING

Focus: Systems and Software

Expected May 2023 | Atlanta, GA

GPA: 4.0/4.0

#### B.S. IN COMPUTER ENGINEERING,

Minor in Artificial Intelligence

May 2022 | Atlanta, GA

GPA: 3.88 / 4.0, Highest Honors

## SKILLS

### PROGRAMMING

3+ years:

Python • C/C++ • Java • Command Line

1+ years:

Matlab • VHDL • MIPS Assembly • C#

Others:

JavaScript • HTML • CSS • Node • React

### SOFTWARE

Git/Github • Android Studio • Linux

UNIX • Windows • Photoshop • IDA Pro

Inventor • Quartus II • VS/VS Code

ELK Stack • Grafana • Jupyter Notebook

### HARDWARE/TOOLS

Raspberry Pi • mBed • Lathe • Drill Press

Resin/3D Printer • Soldering Iron

### LANGUAGES

English (Native) • Chinese (Fluent) • Spanish

(Conversational)

### SOFT SKILLS

Teaching • Teambuilding • Leadership •

Intrapreneurship

## COURSEWORK

Digital Systems Design • Signals and Systems

Programming with Hardware and Software

Systems • Advanced Computer Architecture •

Data Structures and Algorithms • Malware •

Circuit Analysis • Intro to Artificial Intelligence

Cloud Computing • Embedded Systems Design •

Advanced Programming Techniques • CAD

Communication Networks • Machine Learning

## ORGANIZATIONS

IEEE Eta Kappa Nu (HKN)

## LINKS

LinkedIn:// [nathanwang-gt](#)

Website: <https://nathan-wang-gt.github.io>

## EXPERIENCE

### T-MOBILE | DEVOPS INTERN

May 2022 - Aug. 2022 | T-Mobile HQ, Bellevue, WA

- Designed and developed a Production level logging system for legacy builds for the Radio Frequency team.
- Worked with Docker to simulate cloud-native applications
- Created a data parser and visualizer using Elasticsearch, Logstash, and Kibana (ELK Stack)
- Developed an alert system using Grafana

### CARMAX | SYSTEMS INTEGRATION INTERN

June 2021 - Aug. 2021 | Remote

- Built a resilient, end-to-end application ready for production.
- Developed a data analysis dashboard using React.js.
- Implemented a backend for frontend layer using C#.
- Set up an Azure Pipeline to help manage the dashboard.
- Learned better debugging conventions and best practices for writing enterprise-quality code.

### BIOTELEMETRY, INC. | DATA SCIENCE INTERN

July 2020 - Dec. 2020 | Remote

- Worked with cross-compilers to send and receive generated signals between multiple hardware devices.
- Developed a program that compiles and analyzes input data using Python.

### GEORGIA TECH | TEACHING ASSISTANT

#### ADVANCED PROGRAMMING TECHNIQUES

Aug. 2022 - Dec. 2022 | Atlanta, GA (Graduate TA)

- Taught students how to write clear, concise, industry-level code with acceptable documentation standards.
- Improved student understanding towards advanced topics such as distributed programming and GPU programming.

#### PROGRAMMING WITH HARDWARE AND SOFTWARE SYSTEMS

Jan. 2020 - May 2021 | Atlanta, GA (Undergraduate TA)

- Assisted students with their work and concerns pertaining to MIPS Assembly and C software along with mBed hardware.
- Coordinated with fellow teaching assistants to host review sessions to facilitate learning among students.

## PROJECTS

### CARMAX INNOVATION GARAGE | FINALIST

July 2021 - Aug. 2021 | Remote

- Developed a web crawler using Puppeteer and a web extension for data comparison.
- Created an Azure Pipeline to host the crawler and store data.

### NSA CODEBREAKER 2022 | COMPETITOR

Nov. 2022 - Dec. 2022 | Remote

- Applied malware reverse engineering, web analysis, log analysis to complete challenges.
- Learned better practices to avoid malware exploitations.