

NATHAN WANG

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OBJECTIVE

Highly motivated software engineer seeking a challenging role to apply my skills and knowledge in developing innovative software solutions

EDUCATION

Georgia Institute of Technology | Atlanta, GA

Masters of Science, Machine Learning

Bachelor of Science, Computer Science

Degree: May 2024

GPA: 4.00/4.00

GPA: 3.92/4.00

RELEVANT COURSES

Automata and Algorithms, Deep Neural Networks, Machine Learning, Computer Vision, Cybersecurity and Threat Management, Computer Networking, Web Application Development, Big Data Analytics, Natural Language Processing

EXPERIENCE and PROJECTS

Amazon Web Services CSA Intern

May 2023 - August 2023

- Debugged and guided clients with using AWS services, Linux, and common Apache server troubleshooting techniques
- Practiced agile workstyle, thorough system design, and well-architected AWS framework solutions for security and fault tolerance of applications
- Utilized AWS CDKs to work with S3, EC2, Kubernetes, Lambdas, and more
- Built tools using multiple AWS services to facilitate proper, secure replication of S3 buckets across regions
- Built a web application extension for Amazon phone tools with AWS Rekognition and SageMaker implementation

Machinify, Inc SWE Intern

May 2021 - August 2021

- Worked closely with senior developers to implement new features and enhance existing functionality
- Developed user-friendly interfaces and improved the overall user experience of the company's software products
- Conducted extensive testing and debugging

Intelligent Digital Communications VIP at Georgia Tech

2021 - Present

- Published our paper, "Cognitive Wireless Networks: Research, Applications, and Testbed" to IEEE on near real-time classification of wireless signals using various machine learning techniques and testbeds
- Applied multi-model deep neural networks with digital signal processing techniques and embedded systems for improved accuracy of RF telecommunication technologies and signal classification

Large Language Model Compression Research Group

2023 - Present

- Currently researching methods to improve LLM compression using state of the art dynamic grouped heads and non-linear layers between heads to mitigate accuracy loss from other compression methods
- Publishing "Shallower LLMs for Faster Inference" at the 2024 Neurips conference

Big Data Big Impact Club Committee

2022 - 2023

- Worked on projects that utilizes big data to build apps that help provide insight into world issues
 - Built a flight delay predictor application aimed at reducing the impact of increased flight delays and cancellations
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SKILLS

Programming Languages: Java, JavaScript, Python, C, HTML/CSS, MATLAB, SQL

Frameworks and Tools: ReactJS, AngularJS, Nodejs, Express, AWS CLI and CDK, Git/Github, Linux, Flask, D3js

Software Development Lifecycle: Agile, Figma

ACHIEVEMENTS

Faculty Honors

2020 - 2023

- Awarded to undergraduate students who receive a GPA of 4.0 in 12 or more credits in a semester

Certifications

- AWS Certified Cloud Practitioner, AWS Solutions Architect Associate, Stanford ML Specialization