

Nathan Wang

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EDUCATION

Georgia Institute of Technology

Atlanta, GA | May 2023

M.S. COMPUTER ENGINEERING

GPA: 3.88/4.00

Teaching Assistant: Advanced Programming Techniques

B.S. COMPUTER ENGINEERING WITH MINOR IN ARTIFICIAL INTELLIGENCE

May 2022

GPA: 3.88/4.00

Teaching Assistant: Digital Systems Design, Programming with Hardware and Software Systems, Engineering Software Design

WORK EXPERIENCE

ASCENTTA | IT SPECIALIST

Remote | July 2023 – Present

- Designed and developed a specification package using a **Python GUI** to support the sales team in their automation process.

T-MOBILE | DEVOPS INTERN

Bellevue, WA | May 2022 – Aug 2022

- Designed and implemented a dashboard using **ElasticSearch** and **Kibana** to visualize data produced by logs in real time using **Logstash**, increasing the transparency and response time to errors and failures.
- Created an alert system using **Grafana** to notify users of issues with databases at real time.
- Performed **unit testing** on developed dashboard, which led to the system being pushed to Production.

CARMAX, INC. | SYSTEMS INTEGRATION INTERN

Remote | Jun 2021 – Aug 2021

- Built a resilient, end-to-end data analysis dashboard using **React.js** to analyze individual payment statuses of customers, increasing status lookup time.
- Implemented the backend for the dashboard using **C#** to process data from Azure Database.
- Set up a CI/CD pipeline on **Azure** and passed unit tests for each stage, which resulted in the dashboard being pushed to Production.

BIOTELEMETRY, INC. | DATA SCIENCE INTERN

Remote | Jul 2020 – Dec 2020

- Developed a EKG detection system in **Python** to help identify anomalies in heartbeat data from patients to help detect early heart conditions.
- Applied **DSP** techniques such as **FFT** and **algorithms** to improve overall runtime speed.

PROJECTS

CARMAX INNOVATION GARAGE

PUPPETEER, C#, AZURE

A web crawler chrome extension designed to scrape data off of competitor websites and create a comparison between prices of products of similar or same specifications. Created an Azure Pipeline to maintain the extension.

NSA CODEBREAKER 2022

CYBERSECURITY, WIRESHARK, GHIDRA, WEB ANALYSIS, LOG ANALYSIS

Competed in the annual malware competition hosted by the NSA. Applied malware concepts to solve simulated challenges. Georgia Tech as a team scored first out of all competing universities.

DIABETIC RETINOPATHY SEVERITY ML CLASSIFIER

PYTHON, ML, GOOGLE COLAB, TENSORFLOW

A detector trained through different classification methods (K-Means, Gaussian Mixture Models, K-Nearest Neighbors, Convolutional Neural Networks) to identify the severity of a patient's diabetic retinopathy.

HOT SPOT MOBILITY MODEL

C/C++, NETWORKS, NS3

An implementation of the simplified version of the Hot Spot Mobility Model on ns3 version 3.37. The model is built for 2D simulations and chooses waypoints off the straight-line path between the current location and destination node.

SKILLS

Languages: Python, C++/C#, C, Java, Matlab, Linux, SQL, JavaScript, HTML/CSS, \LaTeX

Software: React, Node, Git/Github, IDA Pro, Docker, Power BI, Grafana, Jupyter Notebook, AWS, Azure

Hardware: Raspberry Pi, mBed, Arduino

Soft Skills: Teaching, Communication, Intrapreneurship