

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

BOEING | ASSET SOFTWARE & CONTROLS ENGINEER II

Everett, WA | Jul 2024 – Present

- Performs software deployments and maintains configuration as Software Configuration Manager to all 747, 767, and 777/777x automated equipment for safe and reliable aircraft testing and production.
- Utilizes knowledge from retired co-workers to transition from **ClearCase**, an obsolete software repository, to **GitLab**, a modern software repository following current Boeing standards, which reduces overall technical debt.
- Creates system test plans for replacement of critical aging equipment, increasing efficiency and preventing production-level failures.
- Authors and reviews requirements for upcoming Functional Test Equipment and Software to accommodate for changes in production standards and transitions into software updates.
- Prevents line-stoppers for final assembly testing by debugging issues with equipment/airplane to help airplanes pass tests and make deliveries.

T-MOBILE | SOFTWARE ENGINEERING INTERN

Bellevue, WA | May 2022 – Aug 2022

- Composed 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. | SOFTWARE ENGINEERING 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#** and **SQL** 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. | SOFTWARE ENGINEERING 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

NSA CODEBREAKER 2022

CYBERSECURITY, WIRESHARK, GHIDRA, WEB ANALYSIS, LOG ANALYSIS

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.

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

Certifications: Microsoft Certified: Azure AI Fundamentals