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