Nathan Eng

nathaneng89@gmail.com | (503) 748-9216 | linkedin.com/in/nathanaeng | nathanaeng.com

EDUCATION

Georgia Institute of Technology, 4.00/4.00 GPA   *August 2020 – May 2024*
Bachelor of Science in Computer Science   *Atlanta, GA*

EXPERIENCE

Nike, Inc.   *June 2023 – August 2023*
Software Engineer Intern   *Beaverton, OR*
- Migrated Google Cloud Platform project provisioning to Nike's central cloud provider management application, increasing scalability and reducing project configuration time by 40%.
- Implemented an asynchronous workflow to configure IAM policy bindings, service account permissions, and SSO integrations, enhancing security and streamlining access management.
- Engineered a testing framework with JavaScript and Python for Google Cloud Platform project creation, improving reliability and eliminating an error affecting 80% of prior projects.
- Orchestrated a complex multi-container application with Docker Compose, creating a consistent development environment and accelerating the development process.

Georgia Tech Contextual Computing Group   *January 2023 – May 2024*
Undergraduate Research Assistant   *Atlanta, GA*
- Worked in Dr. Thad Starner's passive haptic learning lab to create gloves that accelerate piano skill acquisition.
- Created an analytical dashboard using Chart.js for users to track their progression over time via a web portal.
- Placed 3rd place for best poster presentation in the College of Computing at the 17th Annual Georgia Tech Undergraduate Research Symposium.

Streem, Inc.   *May 2022 – August 2022*
Software Engineer Intern   *Remote*
- Implemented end-to-end tests for a video call system using WebdriverIO framework to improve application reliability.
- Created a TypeScript script to validate simultaneous localization and mapping algorithms and RealityKit scenes.
- Designed and ran multi-platform asynchronous mobile tests in BrowserStack.

OHSU Department of Medical Informatics and Clinical Epidemiology   *May 2021 – September 2021*
Data Science Intern   *Portland, OR*
- Filtered data sets from the N3C COVID-19 database containing over 6 million rows with R, Python, and SQL.
- Utilized SparkR for distributed data processing to deal with large-scale data streams.
- Developed data visualization templates including a single-date frequency plot split among data partners.
- Presented and demonstrated how data analysts can apply visualization templates to their research.

ORGANIZATIONS

Big Data Big Impact @ Georgia Tech   *August 2022 – May 2024*
Platform Lead (Club Officer)   *Atlanta, OR*
- Led a team of 15 students in developing a predictive crop yield visualizer to help growers maximize profits.
- Ran interactive workshops and demos on industry-leading distributed software development technologies with 50+ participants.

PROJECTS

Sorting Algorithm Visualizer | *nathanaeng.github.io/sorting-visualizer*   *January 2022*
- Created a web application with React to visualize different sorting algorithms and their time complexities.

Distributed Time Event Server   *May 2022*
- Developed a multi-threaded, encrypted networking system using the User Datagram Protocol in C.
- Handled concurrent requests and responses using the Pthreads library.

TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript, HTML/CSS, Java, R
Technologies: Git, Docker, AWS Services, React, Node.js, Valgrind, GDB, Linux, Elasticsearch, Kibana, VirtualBox
Concepts: Data Structures, Intermediate Algorithms, Object-Oriented Programming, Computer Organization, Agile Methodologies and Design Principles, Database Systems, Intro to AI, Networking, Machine Learning, Computer Vision