

NATHAN DIXON

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EDUCATION

The George Washington University, School of Engineering & Applied Science **Washington, DC**
Computer Science, *Bachelor of Science (Major)*, Management and Leadership (*Minor*) *Graduating 2026*
Relevant Coursework: *Software Engineering., System Programming, Data Structures & Algorithms, Databases, OS*

The Hong Kong University of Science & Technology, School of Engineering **Hong Kong**
Study Abroad Program January - May 2025

LEADERSHIP AND RESEARCH EXPERIENCE

SEAS SUPER Fellow, Lead Researcher **George Washington University, May - September 2024, June 2025 - Present**

- Worked with Dr. Kartik Bulusu on creating a lightweight, cost effective data collection and analysis system using Raspberry Pis and an NVIDIA Jetson to investigate benefits of self-hosted machine learning.
- Set up and managed Docker containers on an NVIDIA Jetson running MQTT for lightweight IoT communication, a Grafana dashboard, and a PostgreSQL database.
- Led a team of graduate and undergraduate students - delegated tasks, facilitated weekly meetings, reported to PI.

NLP Research, Research Assistant **George Washington University, September 2024 - December 2024**

- Worked with Dr. Kinga Dobolyi on identifying banter-like parts of speech from AO3 novels and social media comments
- Created a 15k point dataset of dialogue pairs, compared results of banter identification by Llama 3.1 and BERT

Palantir Spring Launch Program, Launcher **Palantir, March 2024**

- Created an interactive dashboard with a team that allows world leaders and scientists to make data driven decisions about potential disease threats and vaccine distribution using Palantir Foundry.
- Networked with current Palantir Devs, Deltas, and Echos to learn more about Palantir life and work.

Association for Computing Machinery, President, Treasurer **George Washington University, April 2023 - Present**

- Led a driven team to begin hosting regular Hackathons to expand our presence in the CS community
- Created two new positions on the board to manage outreach to the student body and the department

WORK EXPERIENCE

Greater Washington Partnership, Technology Intern **Washington, DC, June 2025 - Present**

- Conducted research on Partnership website - mapped onsite and offsite links, investigated vulnerabilities
- Wrote 5 page memo on recommendations for website improvement with an estimated 1.2s saved per page when loading
- Designed dynamic, low-code wireframes and facilitated meetings with multiple departments to plan the website refresh

Kaliwa, Host, Expo **Washington, DC, June 2024 - August 2024**

- Managed reservations and waitlist, sat 200 - 400 guests per night
- Trained 4 new employees in the hospitality industry to accompany and welcome diverse groups of guests

Dexter Southfield Science & Technology Camp, Technology Instructor **Brookline, MA, June - August 2022, 2023**

- Taught 8-12-year-olds electronic skills such as soldering and circuitry, coding in Scratch and Python, and 3D CAD

PROJECTS

Collage: *A social platform built for personalized course planning and AI academic advising*

- Implemented backend data persistence logic using SQL for the activity page, ensuring proper storage and retrieval of user activities
- Optimized frontend performance through precaching in Next.js based on my activity importance ranking algorithm
- Collaborated effectively in a hybrid team environment to deliver the update on time

Forex Trading Indicator: *An algorithm based indicator that predicts and simulates trades on the forex market*

- Implemented using Pandas, Keras, scikit-learn, and Matplotlib, trained on data from Oanda FX API
- A KNN model gives popular price indicators an accuracy score based on how well it predicts price movement
- Trades are simulated based on outputs from each indicator and the likelihood of verifiability of the given indicator

Caviar Connect: *A social media app designed for making parties more virtually interactive*

- Built in Swift with a Firebase backend, Caviar allows the user to connect to an event by scanning a QR code
- Users can add and upvote songs to be played by the DJ
- Users can add social media links to their profile to find others at the event

TECHNICAL SKILLS & CERTIFICATIONS

Awards: Milton Academy Head of School Award (2022), [SUPER Fellowship](#) (2024, 2025), [SURE Award](#) (2025)

Skills: Java, Python, Javascript, Unity, Linux, Git, Kubernetes, Docker, TensorFlow, MQTT, DigitalOcean, PostgreSQL

Interests: Photography, Motorsport, Ultimate Frisbee