# Walter Owino Wagunde

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## EDUCATION

**Tufts University** – *Full-academic scholar, Cum Laude, Harry Poole Burden Prize (2023 – 2024)*     *Medford, MA*

**Major:** Bachelor of Science in Computer Engineering     *Graduation Month: May 2024*

**Relevant Coursework**: Data Structures and Algorithms, Web Programming, Operating Systems, Security, iOS Dev

## SKILLS

**Languages:** JavaScript, Python, C/C++, Java, SQL (Postgres, MS-SQL, MySQL), Swift, JSON, CSS, HTML, XML, R
**Cloud, Security, and Frameworks:** Node.js, React, Firebase, Datadog, SwiftUI, SQL Server, jQuery, Bootstrap, Flask
**DevOps and API Tools:** Git, Bash, Swagger API, REST APIs, Postman, GitLab CI, Docker, AJAX

## EXPERIENCE

**IngenID, Software Engineer (Contract) | Remote**     **July 2024 – Present**

- Utilized SEO strategies to optimize IngenID's website, increasing site visibility by **80%**, and performed general maintenance on the website, identifying critical bugs and improving load time by **25%**.
- Leveraged Burb Suite to perform penetration testing on company endpoints, identifying two critical vulnerabilities and providing remediation strategies, reducing potential risks by **95%**.
- Developed an IVR call center in Twilio, reducing call handling time by **20%** and customer wait times by **30%**.

**HubSpot, Software Engineer (Growth Monetization Team) | Cambridge, MA**     **September 2024 – February 2025**

- Deployed a simplified seat quantity increase experiment boosting conversion rates by **5%** for additional seat purchases, and assumed primary on-call responsibilities, working with the backend team to improve latency performance by **30%**.
- Utilized a feature gate to launch a simplified order summary, monitored errors via LogFetch, and tracked conversion rates using Amplitude, ensuring a stable CVR of **90%** and improving transaction efficiency.
- Collaborated with designers and product managers to enhance the checkout page editing experience by replacing modals with inline editing in accordions and updated Redux logic for scalability, reducing checkout drop-off by **10%**.

**Zillow, Software Development Engineer Intern (Apps Eval Team) | Seattle, Washington**     *June – September 2023*

- Optimized the iOS App's Home Details Page to a hub and spoke architecture using Swift and SwiftUI, improving load times by **15%** and ensuring long-term maintainability.
- Shipped a contextual block for the Home Details Page to track user activity using clickstream analytics, providing data-driven insights for product decisions and employed A/B experiments, leading to **5%** improvement in feature adoption.
- Improved app stability and user experience by utilizing Firebase Crashlytics to identify and resolve software issues, fixing **6+** significant bugs and increasing the crash-free rate from **99.2%** to **99.5%**.

**Zillow, Software Engineering Intern (Rotational Program) | Remote**     *June – August 2022*

- Leveraged Swagger API to design, document, and test a RESTful web service for deprecating roles and enhancing system integrity by automating the removal of access for former Zillow employees.
- Engineered a Home Finder Utility App to streamline the process for testers and developers in identifying specific properties, utilizing user-friendly interface designs to improve testing and development efficiency.
- Led a team to develop a Swift-based Home Swap feature during a companywide programming competition, guiding agile processes from Figma design to coding, highlighting team leadership and agile proficiency.

## PROJECTS

**Electronic Orchestra Analyzer, Sponsored by MIT Lincoln Labs | Team of 6**     *September 2023 – May 2024*

- Led the development of a device to analyze live band music using a USB DAQ device, DSP, MATLAB, and CNN instrument-classification model in Python with TensorFlow. Results identify instruments, their locale, and distance.

**Tufts Sublet | Live Site | Team of 4**     *October – May 2023*

- Utilized HTML, CSS, and PHP to drive full-stack development of a subletting platform for Tufts University students, allowing for streamline room searches and postings, and efficient sublease process.

## ATHLETICS

**Varsity Cross Country & Track Teams, Tufts University | NESCACS**     **September 2020 – May 2024**

- Received MVP and NESCAC Athlete of the Week Awards.