

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: C#, JavaScript, Python, C/C++, Java, SQL (Postgres, MS-SQL, MySQL), Swift, JSON, CSS, HTML, XML

Cloud, Security, and Frameworks: .NET, Node.js, React, Firebase, Datadog, SwiftUI, SQL Server, jQuery, Bootstrap

DevOps and Others: Azure DevOps, Git, Bash, Swagger API, REST APIs, Azure Security Center, 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%**.
- Performed penetration testing on company endpoints using **Burp Suite and Azure Security Center**, identifying two critical vulnerabilities and reducing security risks by **95%**.
- Developed an IVR call center in **Twilio**, integrating **RESTful APIs and event-driven services** to reduce call handling time by 20%.

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 to enhance the checkout page editing experience by **rebuilding UI components in React**, replacing modals with inline editing 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 by implementing a **modular SwiftUI architecture**, reducing load times by **15%** and improving UI responsiveness.
- 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 and cloud-native logging solutions 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 microservice**, automating role deprecation 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