

# OMER KHAN

Ashburn, Virginia | notomer.github.io | github.com/notomer | notomerkhan@gmail.com | (202) 491-5455

## PROFESSIONAL EXPERIENCE

*Software Engineer Intern, Apple Inc, San Diego, CA*

*January 2023 - June 2023*

- Coordinated with cross-functional integration support to identify dependencies between projects and reduce build failure triage needs by 15%.
- Created and tracked bug/project updates, managing and resolving internal tools throughout development cycles.
- Applied hybrid waterfall/agile process for development work to be in line with SWE development milestones.
- Engineered 5 developer tools (CLI, UI/UX, server side) for development and pull request workflow for Continuous Integration.
- Spearheaded triaging and prioritization for build and test failures and contributed to downtime reduction for CI server.
- Refined git hosting server deployment processes by ensuring plugin and SDK compatibility with consistent updates.
- Conducted code reviews and provided feedback to revise code quality and maintain SWE standards.
- Organized collaboration with other teams to integrate code into workflows and identify mutual enhancements.

*Technical Specialist, Apple Inc, Reston, VA*

*September 2021 - Present*

- Leveraged deep product knowledge to swiftly diagnose and solve technical issues, improving customer satisfaction.
- Managed technical escalations with cross-team collaboration, ensuring timely delivery of solutions.
- Maintained comprehensive problem-solving documentation of customer interactions and technical histories.

## PROJECTS

### **Clang & Compiler Error Extraction Tool**

- Engineered and deployed a clang & compiler error extraction tool on companywide cloud build infrastructure.
- Automated the detection of build warnings and errors, notifying code authors based on compilation flags and build requirements. Thereby streamlining productivity and accelerated issue resolution for developers.

### **Diff CLI (Command Line Interface) Tool**

- Built a CLI adaptation for a diff tool to prevent accidental inclusion of references to future features or hardware in shipped or seeded content. Thus preventing accidental inclusion in public facing software.
- Utilized a trampoline command for executing user commands in a controlled environment and integrated self-contained dependency resolution, ensuring consistent and streamlined deployment across various systems.

### **Raytheon Autonomous Drone Competition Project: 1st Place**

- Led development of an Autonomous Drone and Ground Vehicle system, using ROS and Machine Learning to improve coordination and control without human intervention, resulting in a 1st place win for all of East Coast.
- Implemented computer vision for AI-driven pathfinding and obstacle avoidance, using neural networks for real-time decision-making.

### **Automated Address Sanitizer (ASan) Root Installation for iOS**

- Led development of automated Address Sanitizer (ASan) root installation for iOS builds, utilizing a fast compiler-based tool to detect and resolve memory bugs in native code for iOS build sanitation.
- Implemented an internal Lightweight Directory Access Protocol (LDAP) system to ensure root visibility and control installation based on disclosure access, preventing unauthorized installations.

## TECHNICAL SKILLS

Technical: Java, Python, Ruby, Swift, React, Docker, R, Git, Atlassian SDK, Pandas, TensorFlow, Pytorch, OpenCV, and, Redis.

## EDUCATION

**George Mason University**, College of Science, Fairfax, Virginia

*Spring 2025*

Bachelor of Science, Major in Computational Data Science

- Relevant Coursework: Machine Learning, Data Structures and Algorithms, Artificial Intelligence, Database Systems, Software Development, Mathematics.

## ADDITIONAL INFORMATION

- Languages: English (Native), Urdu (Intermediate), Spanish (Intermediate).
- Hobbies: Volunteering, Teaching Community Coding Classes, Gardening, Hiking, Cooking.